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<b>(54) Title:</b> SEQUENCES CHARACTERISTIC OF HUMAN GENE TRANSCRIPTION PRODUCT  <b>(57) Abstract</b>  Partial and complete human cDNA and genomic sequences corresponding to particular expressed sequence tags (ESTs). The ESTs are cDNA sequences that are generally between 150 and 500 base pairs in length, are derived from human brain cDNA libraries, correspond to genes transcribed in human brain, and have base sequences identified herein as SEQ ID NOS: 1-2421.		

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**SEQUENCES CHARACTERISTIC OF HUMAN GENE TRANSCRIPTION  
PRODUCT**

5

**Technical Field**

The present invention relates to newly identified polynucleotide sequences corresponding to transcription products of human genes, and to complete gene sequences associated therewith.

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**Background**

This invention relates to human genes. Identification and sequencing of human genes is a major goal of modern scientific research. The sequence of human genes is more than just a scientific curiosity. For example, by identifying genes and determining their sequences, scientists have been able to make large quantities of valuable human "gene products." These include human insulin, interferon, Factor VIII, tumor necrosis factor, human growth hormone, tissue plasminogen activator, and numerous other compounds. Additionally, knowledge of gene sequences can provide the key to treatment or cure of genetic diseases (such as muscular dystrophy and cystic fibrosis). The present invention represents a quantum leap forward in mankind's knowledge of human gene sequences.

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There are several basic concepts of molecular biology which figure prominently in the invention. A brief explanation of those concepts follows. Additional background information and definitions for scientific terms can be found

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in the literature. See, for example, "Glossary of Genetics, Classical and Molecular" by R. Rieger, A. Michaelis, and M.M. Green (Fifth Edition, Springer-Verlag, New York (1991)). The contents of this and other publications cited in the specification are incorporated by reference herein.

At an initial level, the present invention is based on identification and characterization of gene segments. Genes are the basic units of inheritance. Each gene is a string of connected bases called nucleotides. Most genes are formed of deoxyribonucleic acid, DNA. (Some viruses contain genes of ribonucleic acid, RNA.) The genetic information resides in the particular sequence in which the bases are arranged. A short sequence of nucleotides is often called a polynucleotide or an oligonucleotide.

Like genes, polypeptides are built from long strings of individual units. These units are amino acids. The nucleotide sequence of a gene tells the cell the sequence in which to arrange the amino acids to make the polypeptide encoded by that gene. In general, chains of up to about 200 amino acids are called polypeptides, while proteins are larger molecules made up of polypeptide subunits; both types of molecules are referred to generally herein as polypeptides. A triplet of nucleotides (codon) in DNA codes for each amino acid or signals the beginning or end of the message (anticodon). The term codon is also used for the corresponding (and complementary) sequences of three nucleotides in the mRNA into which the original DNA sequence is transcribed.

Generally, enzymes in the cell transcribe the permanent DNA of the gene into a temporary RNA copy, called messenger RNA or mRNA. The mRNA, in turn, can be translated into a polypeptide by the cell. This entire process is called gene expression, and the polypeptide is the gene product encoded by the gene.

Scientists have previously discovered how to reverse the transcription process and copy mRNA back into DNA using an

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enzyme called reverse transcriptase. The resulting is called complementary DNA, or cDNA. This is schematically shown in the single Figure. When substantially all of the mRNA from one cell or tissue is converted to cDNA at once and cloned into multiple copies of a recombinant vector to allow replication and manipulation in the laboratory, the result is called a cDNA library.

The various types of genes include those which code for polypeptides, those which are transcribed into RNA but are not translated into polypeptides, and those whose functional significance does not demand that they be transcribed at all. Most genes are found on large molecules of DNA located in chromosomes. Double stranded cDNA carries all the information of a gene. Each base of the first strand is joined to a complementary base (hybridized) in the second strand. The linear DNA molecules in chromosomes have thousands of genes distributed along their length. Chromosomes include both coding regions (coding for polypeptides) and noncoding regions; the coding regions represent only about three percent of the total chromosome sequence.

An individual gene has regulatory regions that include a promoter which directs expression of the gene, a coding region which can code for a polypeptide, and a termination signal. The regulatory DNA sequence is usually a noncoding region that determines if, where, when, and at what level a particular gene is expressed.

The coding regions of many genes are discontinuous, with coding sequences (exons) alternating with noncoding regions (introns). The final mRNA copy of the gene does not include these introns (which can be much longer than the coding region itself), although it does contain certain untranslated regions that usually do not code for the polynucleotide gene product. Untranslated sequences at the beginning and end of the mRNA are known as 5'- and 3'-untranslated regions,

respectively. This nomenclature reflects the orientation of the nucleotide constituents of the mRNA.

5 A cDNA is a DNA copy of a messenger RNA, which contains all of the exons of a gene. The cDNA can be thought of as having three parts: an untranslated 5' leader, an uninterrupted polypeptide-coding sequence, and a 3' untranslated region. The untranslated leader and trailing sequences are important for initiation of translation, mRNA stability, and other functions. The untranslated leader and trailing sequences are called 5'- and 3'-untranslated sequences, respectively. The 3' untranslated sequence is usually longer than the 5' untranslated leader, and can be longer than the polypeptide-coding sequence. The untranslated regions typically have many, randomly-distributed stop codons, and do not display the nonrandom base arrangements found in coding sequences. The 5'-untranslated sequence is relatively short, generally between 20 and 200 bases. The 3'-untranslated sequence is often many times longer, up to several thousand bases.

20 The translated or coding sequence begins with a translational start codon (AUG or GUG) and ends with a translational stop codon (UAA, UGA, or UAG). Generally, translation begins at the first "start" codon on the mRNA and proceeds to the first "stop" codon. Coding sequences can be distinguished by their nonrandom distribution of bases; numerous computer algorithms have been developed to distinguish coding from noncoding regions in this way.

Human DNA differs from person to person. No two persons (except perhaps identical twins) have identical DNA. While the differences, called allelic variations or polymorphisms, are slight on a molecular level, they account for most of the physical and other observable differences between individuals. It has been estimated that approximately 14 million sequence polymorphism differences exist between individuals.

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The ability of one strand of DNA to attach or hybridize to a complementary strand has already been exploited for several purposes. For example, small pieces of DNA (15 to 25 base pairs long) can be made which will hybridize to longer strands of DNA which have a complementary sequence. These short "primers" can be selected such that they hybridize to a specific, unique location on the longer strand. Once the primers have hybridized to their target on the DNA, the polymerase chain reaction (PCR) can be employed to generate millions of copies of (or amplify) the particular segment of DNA between the locations to which two primers are bound. Briefly, this technique allows amplification of a DNA region situated between two convergent primers, using oligonucleotide primers that hybridize to opposite strands. Primer extension proceeds inward across the region between the two primers, and the product of DNA synthesis of one primer serves as a template for the other primer. Repeated cycles of DNA denaturation, annealing of primers, and extension result in an exponential increase in the number of copies of the region bounded by the primers.

Similarly, a labeled segment of single-stranded DNA can be hybridized to a longer DNA sequence, such as a chromosome, to mark a specific location on the longer sequence. Segments of DNA 50 bases long or longer that hybridize to a unique DNA location in the human genome are extremely unlikely to hybridize elsewhere in the human genome.

The Human Genome Project is an effort to sequence all human DNA (the human genome). The human genome is estimated to comprise 50,000 - 100,000 genes, up to 30,000 of which might be expressed in the brain (Sutcliffe, *Ann. Rev. Neurosci.* 11:157 (1988)). Once dedicated human chromosome sequencing begins in three to five years, it was expected that 12-15 years will be required to complete the sequence of the genome (Report of the Ad Hoc Program Advisory Committee on Complex Genomes, Reston, Va., Feb. 1988, D. Baltimore Ed. (NIH, Bethesda, Md, 1988)). At that rate, the majority of

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human genes would remain unknown for at least the next decade. The present invention can greatly accelerate the pace at which human genes can be identified and mapped. Most gene researchers, in conjunction with publication of their results in this field, submit sequence data to the GenBank database. Prior to the present invention, GenBank listed the sequences of only a few thousand human genes and less than two hundred human brain mRNAs (GenBank Release 66.0, December, 1990).

The role of sequencing complementary DNA (cDNA), reverse transcribed from mRNA, as a part of the human genome project has been vigorously debated since the idea of determining the complete nucleotide sequence of humans first surfaced. The coding sequence of all human genes represents most of the information content of the genome, but only 3-5% of the total DNA. In contrast, cDNA (which is only made from the transcription product of active genes) is one-half to three-fourths (the remainder being 5'- and 3'-untranslated sequence) meaningful genetic information. Thus, some have argued that cDNA sequencing should take precedence over genomic sequencing (Brenner, CIBA Found. Symp. 149:6 (1990)). However, until now, such arguments have not been heeded.

Genomic sequencing proponents have argued the difficulty of finding every mRNA expressed in all tissues, cell types, and developmental states, and that much valuable information from intronic and intergenic regions, including control and regulatory sequences, will be missed by cDNA sequencing. (Report of the Committee on Mapping and Sequencing the Human Genome, National Research Council (National Academy Press, Washington, D.C. 1988)). Further, sequencing of transcribed regions of the genome using cDNA libraries has heretofore been considered impractical or unsatisfactory. Libraries of cDNA were believed to be dominated by repetitive elements, mitochondrial genes, ribosomal RNA genes, and other nuclear genes comprising common or housekeeping sequences. It was believed that cDNA libraries would provide few sequences

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corresponding to structural and regulatory polypeptides or peptides. See, for example, Putney, et al., *Nature* 302:718-721 (1983). Putney, et al. sequenced over 150 clones from a rabbit muscle cDNA library and identified clones for 13 of the 19 known muscle polypeptides, including one new isotype but no unknown coding sequences.

Another perceived drawback of cDNA sequencing was that some mRNAs are abundant, and some are rare. The cellular quantities of mRNA from various genes can vary by several orders of magnitude. This led critics to believe that most information obtained from cDNA sequencing would be repetitious and useless.

The present invention demonstrates that, despite such skepticism, cDNA sequencing now provides a rapid method for obtaining enormous amounts of valuable genetic information and DNA products of great utility for the biotechnology and pharmaceutical industries. Not only can many distinct cDNAs be isolated and sequenced, even partial cDNAs can be used, with conventional, well-understood methods, to isolate entire genes, and to determine the chromosomal locations and biological functions of these genes. As is demonstrated here, fragments of only a few hundred bases are sufficient, in many cases, to identify the probable function of a new human gene if it is similar in structure to a gene from another animal, or from plants or bacteria. Similarly, even fragments of untranslated regions of a cDNA can be used to: i) isolate the coding sequence of the cDNA; ii) isolate the complete gene; iii) determine the position of the gene on a human chromosome, and hence the potential of the gene to cause a human genetic disease; and iv) determine the function of the gene by means of experiments in which the function of the native gene is disrupted by the addition of a short DNA fragment to the cell, e.g., using triple helix or antisense probes.

Because coding regions comprise such a small portion of the human genome, identification and mapping of transcribed

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regions and coding regions of chromosomes is of significant interest. There is a corresponding need for reagents for identifying and marking coding regions and transcribed regions of chromosomes. Furthermore, such human sequences are valuable for chromosome mapping, human identification, identification of tissue type and origin, forensic identification, and locating disease-associated genes (i.e., genes that are associated with an inherited human disease, whether through mutation, deletion, or faulty gene expression) on the chromosome.

#### SUMMARY OF THE INVENTION

Contrary to the expectations of the scientific community, cDNA screening and sequencing techniques have now been used to discover a large number of heretofore unknown human genes. Disclosed herein are over 2,400 new human polynucleotide sequences. These sequences could represent up to 5% of all human genes. The novelty of these sequences has been established through comparison to both nucleotide sequence databases and amino acid sequence databases. Surprisingly, over 80% of the sequences generated were unrelated to any sequences previously described in the literature.

The sequences of the present invention were ascertained using a fast approach to cDNA characterization. This approach could facilitate the tagging of most expressed human genes within a few years at a fraction of the cost of complete genomic sequencing, provide new genetic markers, provide new DNA-based therapeutics and diagnostics, and provide other valuable nucleotide reagents.

The sequences disclosed herein, styled Expressed Sequence Tags ("ESTs"), are markers for human genes actually transcribed *in vivo*. Techniques are disclosed for using these ESTs to obtain the full coding region of the corresponding gene. The use of ESTs, complete coding sequences, or fragments thereof for marking chromosomes, for



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mapping locations of expressed genes on chromosomes, for individual or forensic identification, for mapping locations of disease-associated genes, for identification of tissue type, and for preparation of antisense sequences, probes, and constructs is discussed in detail below. Unlike the random genomic DNA sequence tagged sites (STSS) (Olson et al., Science 245:1434 (1989)), ESTs point directly to expressed genes.

Various aspects of the present invention thus include the individual ESTs, corresponding partial and complete cDNA, genomic DNA, mRNA, antisense strands, triple helix probes, PCR primers, coding regions, and constructs. Also, where one skilled in the art is enabled by this specification to prepare expression vectors and polypeptide expression products, they are also within the scope of the present invention, along with antibodies, especially monoclonal antibodies, to such expression products.

#### BRIEF DESCRIPTION OF THE DRAWING

The single drawing Figure schematically illustrates the progression from chromosome to gene to mRNA to cDNA.

#### DETAILED DESCRIPTION OF THE INVENTION

The detailed description that follows provides not only the actual sequence of each new EST, but also explains how the ESTs were obtained, how to obtain the corresponding complete cDNA sequence and the corresponding genomic DNA sequence, how to make DNA constructs from the ESTs and corresponding sequences, how to use those sequences as reagents in molecular biology and other fields, how to produce gene products from the ESTs and corresponding sequences and antibodies to those gene products, and the functional categories of many ESTs and corresponding genes. Furthermore, numerous actual working examples and predictive

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examples are provided to demonstrate and exemplify numerous aspects of the invention.

#### I. ESTs from cDNA Libraries

5       The sequences of the present invention were isolated from commercially available and custom made cDNA libraries using a rapid screening and sequencing technique. In general, the method comprises applying conventional automated DNA sequencing technology to screening clones, advantageously  
10       randomly selected clones, from a cDNA library. Preferably, the library is initially "enriched" through removal of ribosomal sequences and other common sequences prior to clone selection. According to the present method, ESTs are generated from partial DNA sequencing of the selected clones.  
15       The ESTs of the present invention were generated using low redundancy of sequencing, typically a single sequencing reaction. While single sequencing reactions may have an accuracy as low as 97%, this nevertheless provides sufficient fidelity for identification of the sequence and design of PCR  
20       primers.

      Most human genes can be identified by EST sequencing from libraries of cDNA copies of messenger RNAs. However, some genes are expressed only at specific times during embryonic development, or only in small amounts in a few  
25       specific cell types. Other genes have mRNAs that are degraded very quickly by the cell in which they are expressed. If any of these are the case, transcripts of the gene will not be represented in cDNA libraries so the gene will not be identifiable by EST sequencing. A new method  
30       called "exon amplification", however, can be used to isolate and identify transcripts of such genes.

      Exon amplification works by artificially expressing part or all of a gene that is contained in a cloned fragment of genomic DNA such as a cosmid or yeast artificial chromosome  
35       (YAC). The gene is cloned into a special vector, designed at MIT, that uses control elements from virus genes to express

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the protein-coding exons of the human gene of interest. Exon trapping shows considerable promise as a general technique for identifying those genes in the human genome that cannot be found by cDNA cloning and EST sequencing. Exon amplification will also be useful for identifying the genes in regions of genomic DNA to which disease genes have been mapped. The exon amplification method can be used directly with the cosmid and YAC clones from human chromosomes that are being obtained by both NIH and DOE supported human genome centers. ESTs comprise DNA sequences corresponding to a portion of nuclear encoded messenger RNA. An EST is of sufficient length to permit: (1) amplification of the specific sequence from a cDNA library, e.g., by polymerase chain reaction (PCR); (2) use of a synthetic polynucleotide corresponding to a partial or complete sequence of the EST as a hybridization probe of a cDNA library, generally having 30 - 50 base pairs; or (3) unique designation of the pure cDNA clone from which the EST was derived (the EST clone) for use as a hybridization probe of a cDNA library. Preferably, EST-derived primer pairs and sequences amplify or detectably hybridize to a sequence from a genomic library.

It has been found that sufficient information is contained in the 150-400 base ESTs from one sequencing run to effect preliminary identification and exact chromosome mapping. Accordingly, the ESTs disclosed herein are generally at least 150 base pairs in length. The length of an EST is determined by the quality of sequencing data and the length of the cloned cDNA. Raw data from the automated sequencers is edited to remove low quality sequence at the end of the sequencing run. High quality sequences (usually a result of sequencing templates without excessive salt contamination) generally give about 400 bp of reliable sequence data; other sequences give fewer bases of reliable data. A 150 bp EST is long enough to be translated into a 50 amino acid peptide sequence. This length is sufficient to observe similarities when they exist in a database search. Furthermore, 150 bp is

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long enough to design PCR primers from each end of the sequence to amplify the complete EST. Sequences shorter than 150 bp are difficult to purify and use following PCR amplification. Furthermore, a 150 bp polynucleotide is likely to give a very strong signal with low background in a screen of a genomic library.

Finally, it is highly unlikely that a sequence of the same 150 bp exists in any genes in the genome besides the one tagged by the EST. Some closely related gene family members have very similar nucleotide sequences, but no examples of pairs of human genes with long segments of identical sequence have been reported to date. For instance, there are three known  $\beta$ -tubulin genes in humans. Several ESTs were found that matched one or another of these tubulin genes, but several new members of this gene family were also found and could be clearly distinguished from the three known members. ESTs that match perfectly to several different genes can be detected by hybridizing to chromosomes: if many chromosomal loci are observed, the sequence (or a close variant) is present in more than one gene. This problem can be circumvented by using the 3'-untranslated part of the cDNA alone as a probe for the chromosomal location or for the full-length cDNA or gene. The 3'-untranslated region is more likely to be unique within gene families, since there is no evolutionary pressure to conserve a coding function of this region of the mRNA.

As demonstrated in the Examples that follow, ESTs can be used to map the expressed sequence to a particular chromosome. In addition, ESTs can be expanded to provide the full coding regions, as detailed below. In this manner, previously unknown genes can be identified.

While a variety of cDNA libraries can be used to obtain ESTs, human brain cDNA libraries are exemplified and represent a preferred embodiment. Suitable cDNA libraries can be freshly prepared or obtained commercially, e.g., as shown in Examples 1, 2, and 11. The cDNA libraries from the

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desired tissue are preferably preprocessed by conventional techniques to reduce repeated sequencing of high and intermediate abundance clones and to maximize the chances of finding rare messages from specific cell populations.

5 Preferably, preprocessing includes the use of defined composition prescreening probes, e.g., cDNA corresponding to mitochondria, abundant sequences, ribosomes, actins, myelin basic polypeptides, or any other known high abundance peptide; these prescreening probes used for preprocessing are

10 generally derived from known ESTs. Other useful preprocessing techniques include subtraction, which preferentially reduces the population of certain sequences in the library (e.g., see A. Swaroop et al., Nucl. Acids Res. 19, 1954 (1991)), and normalization, which results in all

15 sequences being represented in approximately equal proportions in the library (Patanjali et al, Proc. Natl. Acad. Sci. USA 88:1943 (1991)).

The cDNA libraries used in the present method will ideally use directional cloning methods so that either the 5' end of the cDNA (likely to contain coding sequence) or the 3' end (likely to be a non-coding sequence) can be selectively

20 obtained."

Libraries of cDNA can also be generated from recombinant expression of genomic DNA. After they are amplified, ESTs

25 can be obtained and sequenced, e.g., as illustrated in Example 11.

The sequences of the present invention include the specific sequences set forth in the Sequence Listing and designated SEQ ID NO: 1 - SEQ ID NO: 2412. In one aspect of

30 this embodiment, the invention relates to those sequences of SEQ ID NOS: 1 - 2412 that comprise the cDNA coding sequences for polypeptides having less than 95% identity with known amino acid sequences (see Table 2) and more preferably less than 90% or 85% identity. In a second aspect, the invention

35 relates to those sequences of SEQ ID NOS: 1 - 2412 that encode polypeptides having no similarity to known amino acid

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sequences (see Examples that follow). Precisely because they do not contain coding regions and are therefore more unique in their sequence structures, those sequences which meet neither of the preceding criteria can be most useful and are generally preferred for mapping.

Consistent with the NIH mission and its responsibilities to disseminate knowledge and share the tangible fruits of its research, the present inventors have taken a number of steps to facilitate sequence data and clone availability. All EST sequences have been submitted to GenBank (representing an addition equivalent to 7% of the human nucleotides in Release 69 of GenBank, September 1991). The corresponding cDNA clones have been submitted to the American Type Culture Collection and information on clones and sequences has been submitted to the Genome Data Base (Pearson, P. Nucl. Acids Res. 19 (Suppl.): 2237-9 (1991)).

## II. Complete Coding Sequences from ESTs

The ESTs of the present invention generally represent relatively small coding regions or untranslated regions of human genes. Although most of these sequences do not code for a complete gene product, the ESTs of the present invention are highly specific markers for the corresponding complete coding regions. The ESTs are of sufficient length that they will hybridize, under stringent conditions, only with DNA for that gene to which they correspond. Suitably stringent conditions comprise conditions, for example, where at least 95%, preferably at least 97% or 98% identity (base pairing), is required for hybridization. This property permits use of the EST to isolate the entire coding region and even the entire sequence. Therefore, only routine laboratory work is necessary to parlay the unique EST sequence into the corresponding unique complete gene sequence.

Thus, each of the ESTs of the present invention "corresponds" to a particular unique human gene. Knowledge

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of the EST sequence permits routine isolation and sequencing of the complete coding sequence of the corresponding gene. The complete coding sequence is present in a full-length cDNA clone as well as in the gene carried on genomic clones. Therefore, each EST "corresponds" to a cDNA (from which the EST was derived), a complete genomic gene sequence, a polypeptide coding region (which can be obtained either from the cDNA or genomic DNA), and a polypeptide or amino acid sequence encoded by that region.

The first step in determining where an EST is located in the cDNA is to analyze the EST for the presence of coding sequence, e.g., as described in Example 14. The CRM program predicts the extent and orientation of the coding region of a sequence. Based on this information, one can infer the presence of start or stop codons within a sequence and whether the sequence is completely coding or completely non-coding. If start or stop codons are present, then the EST can cover both part of the 5'-untranslated or 3'-untranslated part of the mRNA (respectively) as well as part of the coding sequence. If no coding sequence is present, it is likely that the EST is derived from the 3'-untranslated sequence due to its longer length and the fact that most cDNA library construction methods are biased toward the 3' end of the mRNA.

One general procedure for obtaining complete sequences from ESTs is as follows:

1. Purify selected human DNA from an EST clone (the cDNA clone that was sequenced to give the EST), e.g., by endonuclease digestion using ECOR1, gel electrophoresis, and isolation of the aforementioned clone by removal from low-melting agarose gel.

2. Radiolabel the isolated insert DNA, e.g., with <sup>32</sup>P labels, preferably by nick translation or random primer labeling.

3. Use the labeled EST insert as a probe to screen a lambda phage cDNA library or a plasmid cDNA library.

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4. Identify colonies containing clones related to the probe cDNA and purify them by known purification methods.

5. Nucleotide sequence the ends of the newly purified clones to identify full length sequences.

5 6. Perform complete sequencing of full length clones by Exonuclease III digestion or primer walking. Northern blots of the mRNA from various tissues using at least part of the EST clone as a probe can optionally be performed to check the size of the mRNA against that of the purported full  
10 length cDNA.

An EST is a specific tag for a messenger RNA molecule. The complete sequence of that messenger RNA, in the form of cDNA, can be determined using the EST as a probe to identify a cDNA clone corresponding to a full-length transcript,  
15 followed by sequencing of that clone. The EST or the full-length cDNA clone can also be used as a probe to identify a genomic clone or clones that contain the complete gene including regulatory and promoter regions, exons, and introns.

20 ESTs are used as probes to identify the cDNA clones from which an EST was derived. ESTs, or portions thereof, can be nick-translated or end-labelled with  $P^{32}$  using polynucleotide kinase using labelling methods known to those with skill in the art (Basic Methods in Molecular Biology, L.G. Davis, M.D.  
25 Dibner, and J.F. Battey, ed., Elsevier Press, NY, 1986). The lambda library can be directly screened with the labelled ESTs of interest or the library can be converted en masse to pBluescript (Stratagene, La Jolla, California) to facilitate bacterial colony screening. Both methods are well known in  
30 the art. Briefly, filters with bacterial colonies containing the library in pBluescript or bacterial lawns containing lambda plaques are denatured and the DNA is fixed to the filters. The filters are hybridized with the labelled probe using hybridization conditions described by Davis et al. The  
35 ESTs, cloned into lambda or pBluescript, can be used as positive controls to assess background binding and to adjust



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the hybridization and washing stringencies necessary for accurate clone identification. The resulting autoradiograms are compared to duplicate plates of colonies or plaques; each exposed spot corresponds to a positive colony or plaque. The colonies or plaques are selected, expanded and the DNA is isolated from the colonies for further analysis and sequencing.

The ESTs can additionally be used to screen Northern blots of mRNA obtained from various tissues or cell cultures, including the tissue of origin of the EST clone. Northern analysis will most often produce one to several positive bands. The bands can be selected for further study based on the predicted size of the mRNA.

Positive cDNA clones in phage lambda are analyzed to determine the amount of additional sequence they contain using PCR with one primer from the EST and the other primer from the vector. Clones with a larger vector-insert PCR product than the original EST clone are analyzed by restriction digestion and DNA sequencing to determine whether they contain an insert of the same size or similar as the mRNA size on a Northern blot.

Once one or more overlapping cDNA clones are identified, the complete sequence of the clones can be determined. The preferred method is to use exonuclease III digestion (McCombie, W.R, Kirkness, E., Fleming, J.T., Kerlavage, A.R., Iovannisci, D.M., and Martin-Gallardo, R., *Methods*: 3: 33-40, 1991). A series of deletion clones is generated, each of which is sequenced. The resulting overlapping sequences are assembled into a single contiguous sequence of high redundancy (usually three to five overlapping sequences at each nucleotide position), resulting in a highly accurate final sequence.

A similar screening and clone selection approach can be applied to obtaining cosmid or lambda clones from a genomic DNA library that contains the complete gene from which the EST was derived (Kirkness, E.F., Kusiak, J.W., Menninger, J.,

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Gocayne, J.D., Ward, D.C., and Venter, J.C. *Genomics* 10: 985-995 (1991). Although the process is much more laborious, these genomic clones can be sequenced in their entirety also. A shotgun approach is preferred to sequencing clones with inserts longer than 10 kb (genomic cosmid and lambda clones). In shotgun sequencing, the clone is randomly broken into many small pieces, each of which is partially sequenced. The sequence fragments are then aligned to produce the final contiguous sequence with high redundancy. An intermediate approach is to sequence just the promoter region and the intron-exon boundaries and to estimate the size of the introns by restriction endonuclease digestion (ibid.).

Using the sequence information provided herein, the polynucleotides of the present invention can be derived from natural sources or synthesized using known methods. The sequences falling within the scope of the present invention are not limited to the specific sequences described, but include human allelic and species variations thereof and portions thereof of at least 15-18 bases. (Sequences of at least 15-18 bases can be used, for example, as PCR primers or as DNA probes.) In addition, the invention includes the entire coding sequence associated with the specific polynucleotide sequence of bases described in the Sequence Listing, as well as portions of the entire coding sequence of at least 15-18 bases and allelic and species variations thereof. Furthermore, to accommodate codon variability, the invention includes sequences coding for the same amino acid sequences as do the specific sequences disclosed herein. Finally, although the error rate in the automated sequencing used in the present invention is small, there remains some chance of error. Therefore, claims to particular sequences should not be so narrowly construed as to require inclusion of erroneously identified bases or to exclude corrections.

Any specific sequence disclosed herein can be readily screened for errors by resequencing each EST in both directions (i.e., sequence both strands of cDNA).

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The sequences, constructs, vectors, clones, and other materials comprising the present invention can advantageously be in enriched or isolated form. As used herein, "enriched" means that the concentration of the material is at least about 2, 5, 10, 100, or 1000 times its natural concentration (for example), advantageously 0.01%, by weight, preferably at least about 0.1% by weight. Enriched preparations of about 0.5%, 1%, 5%, 10%, and 20% by weight are also contemplated. Further, removal of clones corresponding to ribosomal RNA and "housekeeping" genes and clones without human cDNA inserts results in a library that is "enriched" in the desired clones.

The term "isolated" requires that the material be removed from its original environment (e.g., the natural environment if it is naturally occurring). For example, a naturally-occurring polynucleotide present in a living animal is not isolated, but the same polynucleotide, separated from some or all of the coexisting materials in the natural system, is isolated.

It is also advantageous that the sequences be in purified form. The term "purified" does not require absolute purity; rather, it is intended as a relative definition. Individual EST clones isolated from a cDNA library have been conventionally purified to electrophoretic homogeneity. The sequences obtained from these clones could not be obtained directly either from the library or from total human DNA. The cDNA clones are not naturally occurring as such, but rather are obtained via manipulation of a partially purified naturally occurring substance (messenger RNA). The conversion of mRNA into a cDNA library involves the creation of a synthetic substance (cDNA) and pure individual cDNA clones can be isolated from the synthetic library by clonal selection. Thus, creating a cDNA library from messenger RNA and subsequently isolating individual clones from that library results in an approximately  $10^6$ -fold purification of the native message. Purification of starting material or

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natural material to at least one order of magnitude, preferably two or three orders, and more preferably four or five orders of magnitude is expressly contemplated.

5 In a cDNA library there are many species of mRNA represented. Each cDNA clone can be interesting in its own right, but must be isolated from the library before further experimentation can be completed. In order to sequence any specific cDNA, it must be removed and separated (i.e. isolated and purified) from all the other sequences. This  
10 can be accomplished by many techniques known to those of skill in the art. These procedures normally involve identification of a bacterial colony containing the cDNA of interest and further amplification of that bacteria. Once a cDNA is separated from the mixed clone library, it can be  
15 used as a template for further procedures such as nucleotide sequencing.

Although claims to large numbers of ESTs and corresponding sequences are presented herein, the invention is not limited to these particular groupings of sequences.  
20 Thus, individual sequences are considered as applicants' discoveries or inventions, as are subgroupings of sequences. All of the functional subgroupings set forth in the tables define groupings for which separate claims are contemplated as being within the scope of this invention. Moreover, in  
25 addition to claims to individual clones, it is intended that the present disclosure also support claims to numerical subgroupings. Thus, subgroupings of 50 ESTs (and corresponding sequences) are contemplated (e.g., SEQ ID NOS 1-50, 51-100, 101-150, etc.) as being within the scope of  
30 this invention, as are subgroupings of 5, 10, 25, 100, 200, and 500 ESTs and corresponding sequences.

### III. DNA Constructs

35 The present invention also includes recombinant constructs comprising one or more of the sequences as broadly described above. The constructs comprise a vector, such as

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a plasmid or viral vector, into which a sequence of the invention has been inserted, in a sense or antisense orientation. In a preferred aspect of this embodiment, the construct further comprises regulatory sequences, including for example, a promoter, operably linked to the sequence. Large numbers of suitable vectors and promoters are known to those of skill in the art, and are commercially available. The following vectors are provided by way of example.

**Bacterial:** pBs, phagescript,  $\phi$ X174, pBluescript SK, pBs KS, pNH8a, pNH16a, pNH18a, pNH46a (Stratagene); pTrc99A, pKK223-3, pKK233-3, pDR540, pRIT5 (Pharmacia).

**Eukaryotic:** pWLneo, pSV2cat, pOG44, pXT1, pSG (Stratagene); pSVK3, pBPV, pMSG, pSVL (Pharmacia).

Promoter regions can be selected from any desired gene using CAT (chloramphenicol transferase) vectors or other vectors with selectable markers. Two appropriate vectors are pKK232-8 and pCM7. Particular named bacterial promoters include lacI, lacZ, T3, T7, gpt, lambda P<sub>R</sub>, and trc. Eukaryotic promoters include CMV immediate early, HSV thymidine kinase, early and late SV40, LTRs from retrovirus, and mouse metallothionein-I. Selection of the appropriate vector and promoter is well within the level of ordinary skill in the art.

In a further embodiment, the present invention relates to host cells containing the above-described construct. The host cell can be a higher eukaryotic cell, such as a mammalian cell, or a lower eukaryotic cell, such as a yeast cell, or the host cell can be a procaryotic cell, such as a bacterial cell. Introduction of the construct into the host cell can be effected by calcium phosphate transfection, DEAE dextran mediated transfection, or electroporation (Davis, L., Dibner, M., Battey, I., *Basic Methods in Molecular Biology*, (1986)).

The constructs in host cells can be used in a conventional manner to produce the gene product coded by the recombinant sequence. Alternatively, the encoded polypeptide

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can be synthetically produced by conventional peptide synthesizers.

Certain ESTs have already been preliminarily categorized by analogy to related sequences in other organisms (see Table 2). Table 10 of Example 10 categorizes particular ESTs broadly as metabolic, regulatory, and structural sequences where known. Constructs comprising genes or coding sequences corresponding to each of these categories are, therefore, specifically and individually contemplated.

Table 11 more particularly separates 127 new ESTs into 13 categories using a different criteria. These are genes related to cell surface; developmental control; energy metabolism; kinase and phosphatase; oncogenes; other metabolism-related polypeptides; peptidases and peptidase inhibitors; receptors; structural and cytoskeletal; signal transduction; transporters; transcription, translation, and subcellular localization; and transcription factors. Table 11 further identifies the EST by the particular gene product for which it apparently codes. Each of these categories individually comprises a preferred category of EST, and preferred constructs and resulting polypeptide can be prepared from those ESTs or the corresponding complete gene sequence.

#### IV. ESTs and Corresponding Sequences as Reagents

Each of the cDNA sequences identified herein (and the corresponding complete gene sequences) can be used in numerous ways as polynucleotide reagents. The sequences can be used as diagnostic probes for the presence of a specific mRNA in a particular cell type. In addition, these sequences can be used as diagnostic probes suitable for use in genetic linkage analysis (polymorphisms). Further, the sequences can be used as probes for locating gene regions associated with genetic disease, as explained in more detail below.

The EST and complete gene sequences of the present invention are also valuable for chromosome identification.

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Each sequence is specifically targeted to and can hybridize with a particular location on an individual human chromosome. Moreover, there is a current need for identifying particular sites on the chromosome. Few chromosome marking reagents based on actual sequence data (repeat polymorphisms) are presently available for marking chromosomal location. The present invention constitutes a major expansion of available chromosome markers. One hundred ESTs have already been mapped to chromosomes. Using the techniques described in Example 5 or 6, the remaining ESTs and the corresponding complete sequences can similarly be mapped to chromosomes. The mapping of ESTs and cDNAs to chromosomes according to the present invention is an important first step in correlating those sequences with genes associated with disease.

Briefly, sequences can be mapped to chromosomes by preparing PCR primers (preferably 15-25 bp) from the ESTs. Computer analysis of the ESTs is used to rapidly select primers that do not span more than one exon in the genomic DNA, thus complicating the amplification process. These primers are then used for PCR screening of somatic cell hybrids containing individual human chromosomes. Only those hybrids containing the human gene corresponding to the EST will yield an amplified fragment.

PCR mapping of somatic cell hybrids is a rapid procedure for assigning a particular EST to a particular chromosome. Three or more clones can be assigned per day using a single thermal cycler. Using the present invention with the same oligonucleotide primers, sublocalization can be achieved with panels of fragments from specific chromosomes or pools of large genomic clones in an analogous manner. Other mapping strategies that can similarly be used to map an EST to its chromosome include in situ hybridization, prescreening with labeled flow-sorted chromosomes and preselection by hybridization to construct chromosome specific cDNA libraries. Results of mapping ESTs to chromosomal segments are listed in Tables 3 and 4.

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Fluorescence in situ hybridization (FISH) of a cDNA clone to a metaphase chromosomal spread can be used to provide a precise chromosomal location in one step. This technique can be used with cDNA as short as 500 or 600 bases; however, clones larger than 2,000 bp have a higher likelihood of binding to a unique chromosomal location with sufficient signal intensity for simple detection. FISH requires use of the clone from which the EST was derived, and the longer the better. 2,000 bp is good, 4,000 is better, and more than 4,000 is probably not necessary to get good results a reasonable percentage of the time. For a review of this technique, see Verma et al., **Human Chromosomes: a Manual of Basic Techniques**. Pergamon Press, New York (1988).

Reagents for chromosome mapping can be used individually (to mark a single chromosome or a single site on that chromosome) or as panels of reagents (for marking multiple sites and/or multiple chromosomes). Reagents corresponding to noncoding regions of the genes actually are preferred for mapping purposes. Coding sequences are more likely to be conserved within gene families, thus increasing the chance of cross hybridizations during chromosomal mapping (see Tables 8 and 9).

Once a sequence has been mapped to a precise chromosomal location, the physical position of the sequence on the chromosome can be correlated with genetic map data. (Such data are found, for example, in V. McKusick, **Mendelian Inheritance in Man** (available on line through Johns Hopkins University Welch Medical Library).) The relationship between genes and diseases that have been mapped to the same chromosomal region are then identified through linkage analysis (coinheritance of physically adjacent genes).

Next, it is necessary to determine the differences in the cDNA or genomic sequence between affected and unaffected individuals. If a mutation is observed in some or all of the affected individuals but not in any normal individuals, then



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the mutation is likely to be the causative agent of the disease.

5 With current resolution of physical mapping and genetic mapping techniques, a cDNA precisely localized to a chromosomal region associated with the disease could be one of between 50 and 500 potential causative genes. (This assumes 1 megabase mapping resolution and one gene per 20 kb.)

10 Comparison of affected and unaffected individuals generally involves first looking for structural alterations in the chromosomes, such as deletions or translocations that are visible from chromosome spreads or detectable using PCR based on that cDNA sequence. Ultimately, complete sequencing of genes from several individuals is required to confirm the  
15 presence of a mutation and to distinguish mutations from polymorphisms.

In addition to the foregoing, the sequences of the invention, as broadly described, can be used to control gene expression through triple helix formation or antisense DNA or  
20 RNA, both of which methods are based on binding of a polynucleotide sequence to DNA or RNA. Polynucleotides suitable for use in these methods are usually 20 to 40 bases in length and are designed to be complementary to a region of the gene involved in transcription (triple helix - see Lee et  
25 al, Nucl. Acids Res. 6: 3073 (1979); Cooney et al, Science 241: 456 (1988); and Dervan et al, Science 251: 1360 (1991)) or to the mRNA itself (antisense - Okano, J. Neurochem. 56: 560 (1991); Oligodeoxynucleotides as Antisense Inhibitors of Gene Expression, CRC Press, Boca Raton, FL (1988)). Triple  
30 helix formation optimally results in a shut-off of RNA transcription from DNA, while antisense RNA hybridization blocks translation of an mRNA molecule into polypeptide. Both techniques have been demonstrated to be efficient in model systems. Information contained in the sequences of the  
35 present invention is necessary for the design of an antisense or triple helix oligonucleotide.

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The present invention is also useful tool in gene therapy, which requires isolation of the disease-associated gene in question as a prerequisite to the insertion of a normal gene into an organism to correct a genetic defect.   
5 high specificity of the cDNA probes according to this invention have promise of targeting such gene locations in a highly accurate manner.

The sequences of the present invention, as broadly defined, are also useful for identification of individuals   
10 from minute biological samples. The United States military, for example, is considering the use of restriction fragment length polymorphism (RFLP) for identification of its personnel. In this technique, an individual's genomic DNA is digested with one or more restriction enzymes, and probed on   
15 a Southern blot to yield unique bands for identifying personnel. This method does not suffer from the current limitations of "Dog Tags" which can be lost, switched, or stolen, making positive identification difficult. The sequences of the present invention are useful as additional   
20 DNA markers for RFLP.

However, RFLP is a pattern based technique, which does not directly focus on the actual DNA sequence of the individual. The sequences of the present invention can be used to provide an alternative technique that determines the   
25 actual base-by-base DNA sequence of selected portions of an individual's genome. These sequences can be used to prepare PCR primers for amplifying and isolating such selected DNA. One can, for example, take an EST of the invention and prepare two PCR primers from the 5' and 3' ends of the EST.   
30 These are used to amplify an individual's DNA, corresponding to the EST. The amplified DNA is sequenced.

Panels of corresponding DNA sequences from individuals, made this way, can provide unique individual identifications, as each individual will have a unique set of such DNA   
35 sequences, due to allelic differences. The sequences of the present invention can be used to particular advantage to

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obtain such identification sequences from individuals and from tissue, as explained in Examples 12 - 14.

5 The EST sequences from Examples 1 and 2 and the complete sequences from Example 13 uniquely represent portions of the human genome. Allelic variation occurs to some degree in the coding regions of these sequences, and to a greater degree in the noncoding regions. It is estimated that allelic variation between individual humans occurs with a frequency of about once per each 500 bases. Each of the ESTs or  
10 complete coding sequences comprising a part of the present invention can, to some degree, be used as a standard against which DNA from an individual can be compared for identification purposes. Because greater numbers of polymorphisms occur in the noncoding regions, fewer sequences  
15 are necessary to differentiate individuals. The noncoding sequences of Table 9 for example, could comfortably provide positive individual identification with a panel of perhaps 100 to 1,000 primers which each yield a noncoding amplified sequence of 100 bp. If predicted coding sequences, such as  
20 those from Table 6, are used, a more appropriate number of primers for positive individual identification would be 500-2,000.

If a panel of reagents from ESTs or complete sequences of this invention is used to generate a unique ID database  
25 for an individual, those same reagents can later be used to identify tissue from that individual. Positive identification of that individual, living or dead can be made from extremely small tissue samples.

Another use for DNA-based identification techniques is  
30 in forensic biology. PCR technology can be used to amplify DNA sequences taken from very small biological samples such as tissues, e.g., hair or skin, or body fluids, e.g., blood, saliva, semen, etc. In one prior art technique, gene sequences are amplified at specific loci known to contain a  
35 large number of allelic variations, for example the DQ $\alpha$  class II HLA gene (Erlich, H., PCR Technology, Freeman and Co.

(1992)). Once this specific area of the genome is amplified, it is digested with one or more restriction enzymes to yield an identifying set of bands on a Southern blot probed with DNA corresponding to the DQ $\alpha$  class II HLA gene.

5       The sequences of the present invention can be used to provide polynucleotide reagents specifically targeted to additional loci in the human genome, and can enhance the reliability of DNA-based forensic identifications. Those sequences targeted to noncoding regions (see, e.g., Tables 8  
10       and 9) are particularly appropriate. As mentioned above, actual base sequence information can be used for identification as an accurate alternative to patterns formed by restriction enzyme generated fragments. Reagents for obtaining such sequence information are within the scope of  
15       the present invention. Such reagents can comprise complete ESTs or corresponding coding regions, or fragments of either of at least 15 bp, preferably at least 18 bp.

      There is also a need for reagents capable of identifying the source of a particular tissue. Such need arises, for  
20       example, in forensics when presented with tissue of unknown origin. Appropriate reagents can comprise, for example, DNA probes or primers specific to particular tissue prepared from the ESTs or complete sequences of the present invention. Panels of such reagents can identify tissue by species and/or  
25       by organ type. In a similar fashion, these reagents can be used to screen tissue culture for contamination.

#### V. Production of Polypeptide Corresponding to ESTs

      As previously explained, each EST corresponds not only  
30       to a coding region, but also to a polypeptide. Once the coding sequence is known, or the gene is cloned which encodes the polypeptide, conventional techniques in molecular biology can be used to obtain the polypeptide.

      At the simplest level, the amino acid sequence encoded  
35       by the polynucleotide sequence can be synthesized using commercially available peptide synthesizers. This is

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particularly useful in producing small peptides and fragments of larger polypeptides. (Fragments are useful, for example, in generating antibodies against the native polypeptide.)

Alternatively, the DNA encoding the desired polypeptide  
5 can be inserted into a host organism and expressed. The organism can be a bacterium, yeast, cell line, or multicellular plant or animal. The literature is replete with examples of suitable host organisms and expression techniques. For example, naked polynucleotide (DNA or mRNA)  
10 can be injected directly into muscle tissue of mammals, where it is expressed. This methodology can be used to deliver the polypeptide to the animal, or to generate an immune response against a foreign polypeptide. Wolff, et al., *Science* 247:1465 (1990); Felgner, et al., *Nature* 349:351 (1991).  
15 Alternatively, the coding sequence, together with appropriate regulatory regions (i.e., a construct), can be inserted into a vector, which is then used to transfect a cell. The cell (which may or may not be part of a larger organism) then expresses the polypeptide. (See Example 25.)

20 Antibodies generated against the polypeptide corresponding to a sequence of the present invention can be obtained by direct injection of the naked polypeptide into an animal (as above) or by administering the polypeptide to an animal, preferably a nonhuman. The antibody so obtained will  
25 then bind the polypeptide itself. In this manner, even a sequence encoding only a fragment of the polypeptide can be used to generate antibodies binding the whole native polypeptide. Such antibodies can then be used to isolate the polypeptide from tissue expressing that polypeptide.  
30 Moreover, a panel of such antibodies, specific to a large number of polypeptides, can be used to identify and differentiate such tissue.

## VI. Examples

35 Certain aspects of the present invention are described in greater detail in the non-limiting Examples that follow.

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## EXAMPLE 1

cDNA Sequences Determined by Random  
Clone Selection: First set

5

## METHODOLOGY:

With reference to the data presented in Table 1, lambda ZAP libraries were converted en masse to pBluescript plasmids, transfected into E. coli XL1-Blue cells, and plated on X-gal/IPTG/ampicillin plates. A total of 1058 clones were picked at random from three human brain cDNA libraries: fetal brain, two-year-old hippocampus, and two-year-old temporal cortex (Stratagene catalog #936206, 936205, 935, respectively. Stratagene, 11099 N. Torrey Pines Rd., La Jolla, CA 92037). An analysis of these clones is summarized in Table I (see below). In addition, clones selected from the hippocampus library were also analyzed after subtractive hybridization with the fibroblast library. These results are listed in the "Hippocampus Subtracted" column of Table 1.

Templates for DNA sequencing were PCR products or plasmids prepared by the alkaline lysis method. About half of the templates prepared by PCR failed to yield an amplified fragment suitable for sequencing. This was primarily due to use of PCR conditions that minimized the need for further purification of the product but also selected against amplification of long inserts (5  $\mu$ l fresh or frozen overnight culture of E. coli carrying the pBluescript plasmid, 7.5  $\mu$ M each dNTP, and 0.1  $\mu$ M each primer for 35 cycles: 94°C, 40 sec; 55°C, 40 sec; 72°C, 90 sec). A further percentage of the PCR-generated templates failed to sequence, largely due to primer-dimer or other amplification artifacts. Qiagen™ columns improved the percentage of plasmid templates, increasing the yields of usable sequence from about 60% with a standard alkaline lysis protocol to over 90%. Overall, 117 PCR-generated templates and 497 plasmid templates resulted in usable sequence. Dideoxy chain termination sequencing reactions were performed with fluorescent dye-labeled M13

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universal or reverse primers. After a cycle sequencing protocol, carried out in a Perkin-Elmer thermal cycler, sequencing reactions were run on an Applied Biosystems, Inc. (Foster City, CA) 373A automated DNA sequencer. (Cycle sequencing was performed in a Perkin Elmer Thermal Cycler for 15 cycles of 95°C, 30 sec; 60°C, 1 sec; 70°C, 60 sec and 15 cycles of 95°C, 30 sec; 70°C, 60 sec with the Applied Biosystems, Inc. Taq Dye Primer Cycle Sequencing Core Kit protocol). Some sequencing reactions were performed on an ABI robotic workstation (Cathcart, *Nature* 347: 310 (1990) hereby incorporated by reference).

#### RESULTS:

Singe-run DNA sequence data were obtained from 609 randomly chosen cDNA clones. The number of clones sequenced from each library is summarized in Table 1. Double-stranded cDNA clones in the pBluescript vector were sequenced by a cycle sequencing protocol with dye-labeled primers and Applied Biosystems, Inc. 373A DNA Sequences. The average length of usable sequence was 397 bases with a standard deviation of 99 bases.

Subtractive hybridization has been used successfully to reduce the population of highly represented sequences in a cDNA library by selectively removing sequences shared by another library. (Schmid and Girou, *Neurochem.* 48: 307 (1987); Fargnoli et al, *Anal. Biochem.* 187: 364 (1990); Duguid and Dinauer, *Nucl. Acids. Res.* 18: 2789 (1990); Schweinfest, et al, *Genet. Anal. Techn. Appl.* 7: 64 (1990); Travis and Sutcliffe, *Proc. Natl. Acad. Sci. USA* 85: 1696 (1988); Kato, *Eur. J. Neurosci.* 2: 704 (1990)). Subtractive hybridization was therefore tested as a way of enhancing the number of brain-specific clones in the hippocampus library by hybridizing the hippocampus library with a WI38 human lung fibroblast cell line cDNA library and removing the common sequences (Schweinfest et al, *Genet. Anal. Techn. Appl.* 7: 64 (1990); Sive and St. John, *Nucl. Acids Res.* 16: 10937

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(1988)). Clones from this subtraction are listed in the column "Hippocampus Subtracted" in Table 1.

The EST sequences from this Example 1 are identified as SEQ ID NOS 1-315.



TABLE 1. cDNA Library Composition Determined  
By Random Clone Sequencing

EST Category	Hippocampus		Hippocampus Subtracted		Fetal Brain		Temporal Cortex	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Databases Match--Human								
Mitochondrial Genes	48	12.8	10	8.6	3	7.9	6	7.5
Repeats: Alu, Line-1, etc.	39	10.4	14	12.2	6	15.8	0	0
Ribosomal RNA	10	2.7	7	6.0	0	0	11	13.8
Other Nuclear Genes	32	8.6	7	6.0	4	10.5	0	0
Database Match--Other	160	42.8	44	37.9	5	13.2	4	5.0
No Database Match	53	14.1	24	20.7	20	52.6	6	7.5
poly A Insert	1	0.3	3	2.6	0	0	27	33.7
No Insert					0	0	26	32.5

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## EXAMPLE 2

Sequencing of Additional ESTs: Second set

Over 2600 additional cDNA clones have been isolated, partially sequenced and screened. The clones were isolated from four human brain cDNA libraries. The new sequences thus discovered, together with the 315 brain ESTs from Example 1, correspond to over 2400 new human genes. These data represent an approximate doubling of the number of human genes identified by DNA sequencing.

Specifically, four cDNA libraries were used as sources of clones for sequencing. Human hippocampus and fetal brain libraries, plasmid template preparation, sequencing reactions, and automated sequencing were performed as described (Adams, M.D., Kelley, J.M., Gocayne, J.D., Dubnick, M., Polymeropoulos, M.H., Xiao, H., Merril, C.R., Wu, A., Olde, B., Moreno, R.F., Kerlavage, A.R., McCombie, W.R., & Venter, J.C. *Science*, 252: 1651-56 (1991)). A pooled probe consisting of inserts from 10 different EST clones with sequences that matched either mitochondrial genes or the 18S or 28S ribosomal RNAs was used to prescreen a gridded filter array of the hippocampus library; nonhybridizing clones are referred to as the "prescreened library". Another fetal brain library was constructed by and was a gift from Bento Soares (Columbia University). A directionally-cloned library was prepared using the method of Rubenstein, et al. (Rubenstein, J., Elizabeth, A., Brice, A., Ciaranello, R., Denney, D., Porteus, M. & Usdin, T. *Nucl. Acids Res.* 18: 4833-4842) using human adult brain mRNA purchased from Clontech (Palo Alto, CA; Catalogue # 6516-1). Of 482 clones analyzed by restriction enzyme digestion, 33% contained inserts at least 1500 base pairs in length. Stratagene hippocampus and fetal brain library totals include data from Adams et al *Science* 252: 1651.

Sequences of nuclear-encoded cDNAs that did not include interspersed repeats (Schmid, C. W. & Jelinek, W. R. *Science*

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216: 1065-1070 (1982); Paulson, K. E., Deka, N., Schmid, C. W., Misra, R., Schlinder, C. W., Rush, M. G., Kadyk, L., & Leinwand, L. *Nature* 316: 359-361 (1985); Fanning, T. G. & Singer, M. F. *Biochem. Biophys. Acta* 910: 203-212 (1987)) were searched against all of GenBank and, in 6-frame translation, against a comprehensive, non-redundant peptide database using the network BLAST (Altschul, S. F., Gish, W., Miller, W., Myers, E.W., & Lipman, D. J. *Mol. Biol.* 215: 403-410 (1990)) server at the National Center for Biotechnology Information. BLAST output was parsed, and an interactive alignment editor was used to select which matches, if any, from each search to record in a relational EST database, which was developed to track sequencing, identification, tissue localization, physical mapping, and the public distribution of the clones, mapping and sequence data. For significant similarities, a putative gene name and Protein Identification Resource (PIR) gene family identification (Barker, W., George, D., Hunt, L., & Garavelli, J. *Nucl. Acids Res.* 19 (Suppl): 2231-2236 (1991)) for the EST were assigned. ESTs without significant matches using BLAST were searched in translation against PIR using FASTA. Ten additional marginal matches were found. A total of 2300 new EST sequences comprising 765,505 nucleotides from the current data set have been submitted to GenBank and assigned accession numbers M77851-M79278 and M85308-M86179. All ESTs except those multiply representing actin, tubulin, and myelin basic protein clones were submitted. ATCC accession numbers of cDNA clones from which ESTs were derived are 77501-78999 and 81000-81756. The Genome Data Base expressed D-segment numbers for these clones are D0S1E - D0S2422E. The ESTs from this Example are identified herein as SEQ ID NOS 316-2407.

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## EXAMPLE 3

EST Characterization: First Set

ESTs including SEQ ID NOS 1-315 were analyzed as follows. Initially, the EST sequences were examined for similarities in the GenBank nucleic acid database (GenBank Release 65.0), Protein Information Resource Release 26.0 (PIR), and ProSite (MacPattern from the EMBL data library, Fuchs R. *Comput. Appl. Biosci.* 7: 105 (1990) Release 5.0 were used). BLAST was used to search Genbank and the PIR (both maintained by the National Center for Biotechnology Information) ESTs without exact GenBank matches were translated in all six reading frames and each translation was compared with the protein sequence database PIR and the ProSite protein motif database. Comparisons with the ProSite motif database were done by means of the program MacPattern from the EMBL Data Library. GenBank and PIR searches were conducted with the "basic local alignment search tool" programs for nucleotide (BLASTN) and peptide (BLASTX) comparisons (Altschul et al, *J. Mol. Biol.* 215: 403 (1990)). PIR searches were run on the National Center for Biotechnology Information BLAST network service. The BLAST programs contain a very rapid database-searching algorithm that searches for local areas of similarity between two sequences and then extends the alignments on the basis of defined match and mismatch criteria. The algorithm does not consider the potential gaps to improve the alignment, thus sacrificing some sensitivity for a 6-80 fold increase in speed over other database-searching programs such as FASTA (Pegarson and Lipman, *Proc. Natl. Acad. Sci. USA*, 85: 2444 (1988)).

Sequence similarities identified by the BLAST programs were considered statistically significant with a Poisson P-value than 0.01. The Poisson P-value less than the probability of as high a score occurring by chance given the number of residues in the query sequence and the database.

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After the BLASTN search, 30 unmatched ESTs were compared against GenBank by FASTA to determine if significant matches were missed due to the use of BLASTN for the database search. No additional statistically significant matches were found. Statistical significance does not necessarily mean functional similarity; some of the reported matches may indicate the presence of a conserved domain or motif or simply a common protein structure pattern. Those ESTs identified as fully corresponding to known human genes or proteins are not included in this disclosure. Statistically significant matches are reported in Table 2, together with the length and percent identity or similarity of each alignment.

On the basis of database searches, 609 EST sequences were classified into eight groups as shown in Table 1 (see Example 1 above). Four groups, with 197 or 32% of the sequences, consist of matches to human sequences: repetitive elements, mitochondrial genes, ribosomal RNA genes, and other nuclear genes. Forty-eight (8%) of the sequences matched non-human entries in GenBank or PIR while 230 (38%) had no significant matches. The remaining 134 (22%) sequences contained no insert or consisted entirely of polyA between the EcoRI cloning sites.

Thirty-six ESTs matched previously sequenced human nuclear genes with more than 97% identity. Four of these ESTs are from genes encoding enzymes involved in maintaining metabolic energy, including ADP/ATP translocase, aldolase C, hexokinase, and phosphoglycerate kinase. Human homologs of genes for the bovine mitochondrial ATP synthase  $F_0\beta$ -subunit and porcine aconitase were also found (Table 2). Brain-specific cDNAs included synaptophysin, glial fibrillary acidic protein (GFAP), and neurofilament light chain. At least six ESTs are from genes encoding proteins involved in signal transduction: 2',3'-cyclic nucleotide 3'-phosphodiesterase (2 ESTs), calmodulin, c-erbB- $\alpha$ -2,  $G_s\alpha$ , and  $Na^+/K^+$  ATPase  $\alpha$ -subunit. Other ESTs were matches to genes for ubiquitous structural proteins -- actins, tubulins, and

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fodrin (non-erythroid spectrin). ESTs also document the presence in the hippocampus cDNA library of the ret proto-oncogene, the ras-related gene rhoB, and one of the chromosome 22 breakpoint cluster region transcripts. Eight  
5 ESTs are from genes known to be associated with genetic disorders (Online Mendelian Inheritance in Man). More than half of the human-matched ESTs from Example 1 have been mapped to chromosomes, indicating the bias of GenBank entries toward well-studied genes and proteins.

10 ESTs without significant GenBank matches were also compared to the ProSite database of recognized protein motifs. Not counting post-translational-modification signatures, fifty-four sequences contained motifs from the database. Some patterns, particularly the "leucine zipper",  
15 are found in scores or hundreds of proteins that do not share the functional property implied by the presence of the motif.

Similarities to sequences from other organisms were also detected in the BLAST searches of GenBank and PIR (Table 2). Several ESTs displayed similarity to "housekeeping" genes,  
20 including the ribosomal proteins S10 and L30 (rat) and the above glycolytic enzymes. EST00257 (SEQ ID NO:77) shows strong nucleotide sequence similarity to the squid (67%) and Drosophila (70.4%) kinesin heavy chain. Kinesin was first described as a microtubule-associated motor protein involved  
25 in organelle transport in the squid giant axon (Vale et al, Cell 42: 39 (1985)). Six oncogene-related sequences were also among the cDNA clones sequenced. EST00299 (SEQ ID NO:180) and EST00283 (SEQ ID NO:271) show similarity to several ras-related genes and EST00248 (SEQ ID NO:102)  
30 matched the 3' untranslated region of the bovine substrate of botulinum toxin ADP-ribosyltransferase. Similarities with an S. cerevisiae RNA polymerase subunit and Torpedo electromotor neuron-associated protein were also observed. Two ESTs may represent new members of known human gene families: EST00270  
35 matched the three  $\beta$ -tubulin genes with 88-91% identity and

EST00271 (SEQ ID NO:248) matched  $\alpha$ -actinin with 85% identity at the nucleotide level.

Among the most interesting of the primary sequence relationships was the similarity of ESTs to the *Drosophila* genes Notch and Enhancer of split. Nucleotide and peptide alignments of EST00256 (SEQ ID NO:188) and EST00259 (SEQ ID NO:227) with the *Drosophila* genes have been demonstrated. Both genes are part of a signal cascade encoded by the "neurogenic" genes that are involved in the differentiation of neuronal and epidermal cell lineages in the neuroectoderm of the developing *Drosophila* embryo (Campos-Ortega, *Trends in Neuro. Sci.* 11: 400 (1988)). It has been proposed that the Enhancer of split protein interacts with a membrane protein that is the product of the Notch gene to convert a developmental signal into an altered pattern of gene expression (id. *J. Mol. Biol.* 215: 403 (1990)). EST00256 (SEQ ID NO:188) matches near the 5' end of the Enhancer of split coding sequence, away from the mammalian G protein  $\beta$  subunit- and yeast *cdc4*-like elements (Hartley et al, *Cell* 55: 785 (1988); Klambt et al. *EMBO J.* 8: 203 (1989)). Part of the EST00259 (SEQ ID NO:227) match to Notch in the *cdc10*/SW16 region that is similar to three cell-cycle control genes in yeast and is tightly conserved in the *Xenopus* Notch homolog, Xotch. In *Drosophila*, Enhancer of split is absolutely required for formation of epidermal tissue. Notch contains several epidermal growth factor-like repeats and appears to play a general role in cell-cell communication during development (Banerjee and Zipursky, *Neuron* 4:177 (1990)).

Seven genes were represented by more than one EST. Comparisons of all the ESTs against one another revealed two overlaps of unknown ESTs: EST00233 (SEQ ID NO:32) and EST00234 (SEQ ID NO:8) match in opposite orientations and EST00235 (SEQ ID NO:204) and EST00236 (SEQ ID NO:148) match in the same orientation beginning at the same nucleotide. Five human genes were represented by more than one EST:  $\beta$ -

actin (3),  $\lambda$ -actin (2),  $\alpha$ -tubulin (2),  $\alpha$ -2-macroglobulin (2), and 2'3'-cyclic-nucleotide-3'-phosphodiesterase (2). Those few instances where two or more ESTs represent different portions of a single cDNA can be readily ascertained when the sequence of the full cDNA insert is determined in accordance with Example 13.

#### Example 4

##### EST Sequences Characterization: Second Set

The ESTs of Example 2, including SEQ ID NOs 316-2407, were screened against known sequences listed in GenBank and other databases, as in Example 3. The results are reported in Table 2. The quality of the match is given as percent identity and length in base pairs for nucleotide matches and amino acid residues for peptide matches. In many cases ESTs match multiple domains on several related proteins; for example, EST00825 matches two transmembrane domains on both GABA and Norepinephrine transporters. Nucleotide databases are: GenBank (GB), and EMBL (E); peptide databases are: GenPept (GPU), Swiss-Prot (SP), and PIR.

The great majority (83%) of the partial cDNA sequences reported in Example 2 are unrelated to any sequences previously described in the literature. Based on database matches to known genes from humans as well as from such evolutionarily distant organisms as *E. coli*, yeast, *C. elegans*, *Drosophila*, barley, *Arabidopsis*, rice, and green algae, we have preliminarily identified the functional type of a number of the ESTs (Table 2). These include a novel gene similar to Notch/Tan-1 (Adams et al., *supra*), a new neurotransmitter transporter gene, and a new member of the multi-drug resistance gene family. Several genes involved in development or cell differentiation in *Drosophila* are represented by similar human ESTs, including seven in *absentia* (Carthew, R. & Rubin, G. Cell 63: 561-577 (1990)),



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big-brain (bib) (Rao, Y., Jan, L., & Jan, Y. *Nature* 345: 163-167 (1990)), the discs tumor suppressor (Woods, D. & Bryant, P. *Cell* 66: 1-20 (1991)), and the homeotic gene orthodenticle (Finkelstein, R., Smouse, D. Capaci, T., Spradling, A. & Perrimon, N. *Genes. Dev.* 4: 1516-1527 (1990)). New members of gene families previously known in humans include a  $\text{Ca}^{+2}$ -transporting ATPase, an ADP ribosylation factor, and a new neural-cell adhesion molecule gene.

The 1971 ESTs without a putative identification were analyzed using the coding-region prediction program CRM via the GRAIL server (Uberbacher, E. & Mural, R. *Proc. Natl. Acad. Sci. USA* 88: 11261-5 (1991)). Fifteen percent of the unknown ESTs scored an excellent probability of containing protein-coding sequence. Fifty percent of the ESTs to known human genes contain protein-coding sequences, therefore, at most half of the unknown ESTs are likely to contain coding sequences. We have found no evidence that genomic DNA or cDNA to unspliced precursor RNA is a major contaminant of either the hippocampus or fetal brain library.

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Table 2: ESTs Identified by Database Matches

SEQ ID	EST#	Putative Identification	Accession	DB	Len	%ID
208	EST00250	60K filarial antigen	A28209	PIR	108	56.9
2320	EST01784	60K filarial antigen	A28209	PIR	88	50.6
969	EST01982	ADP-ribosylation factor 1	B33283	PIR	84	41.2
1834	EST01620	AMP deaminase, brain	A37056	PIR	57	100.0
97	EST00289	Aconitase	A35544	PIR	105	90.6
251	EST00370	Actin, other	S10021	PIR	44	51.1
248	EST00271	Actinin, alpha	HUMACTAR	GB	271	85.3
891	EST01891	Actinin, alpha	HUMACTAR	GB	315	81.6
1500	EST02538	Actinin, alpha	HUMACTAR	GB	271	75.0
132	EST00110	Agrin	RATAGR	GB	269	82.2
1852	EST01625	Agrin	RATAGR	GB	103	84.6
1094	EST02113	Ala	HUMALA	GB	92	82.8
691	EST00675	Alcohol dehydrogenase	RICGOS2G_1	GPU	38	59.0
2408	EST00244	Amyloid A4	HUMAFPA4	GB	135	91.9
1965	EST01664	Amyloid A4	A29030	PIR	52	54.7
2068	EST01694	Amyloid A4	QRHUA4	PIR	83	69.0
2092	EST01700	Anion exchanger homolog AE3	A33638	PIR	95	97.9
1880	EST01634	Axonal glycoprotein TAG-1	A34695	PIR	69	87.1
1492	EST02530	B cell-specific Mo-MLV integration site 1 (bmi-1)	MUSBM11A	GB	111	87.5
1277	EST02306	Bib protein	S09699	PIR	57	53.4
13	EST00255	Cadherins	CADN\$HUMAN	SP	41	45.2
1348	EST02378	cAMP-dependent protein kinase inhibitor	MUSPKI	GB	234	91.5
1931	EST01041	cAMP-regulated phosphoprotein	B35308	PIR	21	86.4
1413	EST02447	cAMP-specific phosphodiesterase	HUMPDEAA	GB	363	69.0
396	EST01443	CDPdiacylglycerol-serine O-phosphatidyltransferase	JH0368	PIR	33	41.2
1956	EST01663	Ca2+-transporting ATPase 2	B28065	PIR	125	88.9
1126	EST02146	Calbindin D28	RATCALBD28	GB	81	87.8
1039	EST02055	Calcium channel	S05054	PIR	33	67.6
1910	EST01645	Calmodulin	RATRCM1	GB	120	90.1
485	EST01466	Calmodulin-dependent protein kinase, type II, beta	A26464	PIR	93	98.9
913	EST01913	Clathrin coat assembly protein AP50 homolog	YSCYAP54_1	GPU	62	63.5
2004	EST01676	Cofilin	PIGCOFIL	GB	132	89.5
2400	EST01824	Cysteine-rich intestinal protein	GYRTI	PIR	56	66.7
1588	EST02633	D2223 repetitive DNA	HUMREP	GB	160	76.4
2192	EST01257	Diacylglycerol kinase, lymphocyte	S09156	PIR	44	42.2
1441	EST02477	Diamine acetyltransferase	ATDA\$HUMAN	SP	74	45.3
650	EST00642	Dilute (myosin heavy chain)	MUSDILUTE_1	GPU	27	100.0
2302	EST01779	Discs-large tumor suppressor	DRODLGA_1	GPU	53	63.0
188	EST00256	Enhancer of split	A30047	PIR	86	58.6
2289	EST01325	Fatty acid synthase	RATFAS	GB	98	79.8
310	EST00377	Fo ATPase beta subunit, mitochondrial	BOVMTASB	GB	293	85.4
1332	EST02362	GA binding protein, beta subunit	MUSGAC_1	GPU	86	90.8
1667	EST00825	Gamma-aminobutyric acid transporter	A35918	PIR	26	59.3
2217	EST01738	Gelation factor ABP-280	A37098	PIR	74	80.0
1412	EST02446	Glutamate-aspartate carrier protein	JV0092	PIR	57	37.9
1020	EST02034	Glutaminase	GLS\$RAT	SP	34	74.3
1885	EST01639	Histocompatibility antigen modifier 1	A37779	PIR	63	75.0
1495	EST02533	Hypothetical 43.5K protein	JU0319	PIR	43	52.3
2326	EST01791	Inositol-1,4,5-trisphosphate 3-kinase	JN0129	PIR	65	68.2
SEQ ID	EST#	Putative Identification	Accession	DB	Len	%ID

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724	EST01529	Interferon-induced 54K protein	INI4\$HUMAN	SP	76	70.1
1035	EST02051	J1 protein	MUSJ1PRO	GB	362	85.7
1229	EST02258	KUP protein	HUMKUPMR_1	GPU	54	36.4
993	EST02007	Kinase 5 protein	CHKCEK5_1	GPU	68	94.2
77	EST00257	Kinesin	A35075	PIR	57	86.2
78	EST00258	Kinesin	A35075	PIR	62	47.6
2245	EST01748	Kinesin	A35075	PIR	98	52.5
2282	EST01784	Lamin B receptor	A36427	PIR	76	71.4
2173	EST01724	Lon protease	JQ0901	PIR	103	41.3
1427	EST02463	Long-chain-fatty-acid-CoA ligase	A36275	PIR	36	62.2
313	EST00276	Lysosomal membrane glycoprotein 1 (LAMP-1)	A31959	PIR	53	46.3
161	EST00247	MARCKS (myristoylated alanine-rich protein kinase	BOVMARCKS	GB	139	83.6
1386	EST02418	MARCKS homolog	MMF52	EU	237	92.4
769	EST00734	MARCKS homolog	S08341	PIR	61	40.3
43	EST00371	Maternal G10 protein	S05955	PIR	38	92.3
1468	EST02505	Matrin 3	RATMATRIN3	GB	137	93.5
639	EST00632	Membrane transport superfamily (GTP-dependent)	A24400	PIR	63	39.1
1894	EST01643	Membrane transport superfamily (GTP-dependent)	A24400	PIR	71	50.0
824	EST01865	Microtubule-associated protein 1B	RATNEU	GB	293	86.4
223	EST00368	Microtubule-associated protein 1B	A33645	PIR	30	54.8
2032	EST01683	Microtubule-associated protein 1B	A33645	PIR	49	62.0
2017	EST01678	Milk fat globule membrane protein	A36479	PIR	48	61.2
1704	EST01580	Myeloid differentiation primary response gene MyD1	MUSMYD118_1	GPU	76	88.3
2226	EST01744	NAD(P) + transhydrogenase (B-specific)	DEBOXM	PIR	86	93.1
1567	EST02610	Neural cell adhesion molecule L1	S05479	PIR	82	43.4
506	EST01471	Neuraxin	S06017	PIR	120	84.3
1566	EST02609	Neutrophil oxidase factor	A34855	PIR	43	47.7
952	EST01961	Notch/Xotch	HUMTAN1_1	GPU	85	57.0
227	EST00259	Notch/Xotch	A35844	PIR	74	85.3
1395	EST02429	Nuclear factor 1-like protein (NF1)	HAMNF1A	GB	111	92.0
1681	EST01573	Nucleoside diphosphate kinase	A33386	PIR	71	52.8
346	EST01828	Otd homeotic protein	A35912	PIR	35	52.8
2254	EST01751	Phosphatidylinositol-4,5-bisphosphate phosphodiesterase	A28807	PIR	40	90.2
1869	EST00992	Polymyxin B resistance	A32714	PIR	20	76.2
93	EST00287	Processing enhancing protein	S03968	PIR	96	58.8
2353	EST01806	Prohibitin	RATPROH1B_1	GPU	120	97.5
2297	EST01775	Prohormone cleavage enzyme	MUSMPC1A_1	GPU	91	93.5
9	EST00376	Prolyl endopeptidase	PIGPREP	GB	223	83.9
1069	EST02087	Protein kinase C, zeta	HUMPKCL	GB	382	58.7
1933	EST01650	Protein phosphatase 2A beta subunit	HUMPROP2AB	GB	288	76.8
202	EST00298	Protein-tyrosine phosphatase LRP	LRP\$MOUSE	SP	62	44.4
1654	EST01572	Protochlorophyllide reductase	S04783	PIR	34	57.1
38	EST00374	RNA polymerase II 6th subunit (RPO26)	A36352	PIR	72	75.3
1478	EST02515	Rab5	F34323	PIR	91	82.6
2368	EST01389	Radial spoke protein 3	S05962	PIR	58	52.5
37	EST00038	ras p21-like small GTP-binding protein (smg GDS)	BOVSMGGDS	GB	131	89.4
180	EST00299	ras-related proteins	S10493	PIR	51	46.1
1700	EST01579	Retrovirus-related gag polyprotein	FOHUE2	PIR	95	77.1
1511	EST02550	Retrovirus-related pol polyprotein	GNLJGL	PIR	50	54.9
102	EST00248	rho H12/ ARH12	BOVBGBRH	GB	195	79.6
1715	EST01583	Ribosomal protein L18a	R5RT18	PIR	68	95.7
SEQ ID	EST#	Putative Identification	Accession	DB	Len	%id

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1856	EST01627	Ribosomal protein L1a	A24579	PIR	75	63.1
1974	EST01667	Ribosomal protein L3	JQ0771	PIR	74	80.0
301	EST00300	Ribosomal protein L30	R6RT30	PIR	57	96.5
22	EST00301	Ribosomal protein S10	R3RT10	PIR	66	97.0
2402	EST01826	Ribosomal protein S10	R3YM10	PIR	36	51.4
463	EST01459	Ribosomal protein YL10	S11581	PIR	40	68.3
1408	EST02442	Seven in absentia	A36195	PIR	46	80.8
299	EST00249	smg p25A GDP dissociation inhibitor	A35652	PIR	97	77.5
951	EST01960	Spectrin, beta	HUMSPTB	GB	268	67.7
2089	EST01699	Sperm membrane protein	A35981	PIR	52	58.5
2073	EST01697	Succinate dehydrogenase flavoprotein	BOVSDHFP1_1	GPU	44	100.0
2138	EST01715	Succinate dehydrogenase flavoprotein	BOVSDHFP1_1	GPU	49	92.0
430	EST00472	Synaptotagmin (p65)	SY65\$HUMAN	SP	27	53.6
1371	EST02402	Talin	MUSTALINR_1	GPU	79	81.2
1771	EST01601	Thiosulfate sulfurtransferase (rhodanese)	ROBO	PIR	65	81.8
300	EST00232	Transforming protein (dbl)	TVHUDB	PIR	25	65.4
189	EST00282	trkB	A35104	PIR	33	67.6
653	EST01512	Tubulin, alpha	HUMTUBAG	GB	223	75.0
594	EST01490	Tubulin, beta	HUMTBB5	GB	298	93.6
757	EST01542	Tubulin, beta	HUMTUBBM	GB	217	90.4
1245	EST02274	Tubulin, beta	A26561	PIR	105	88.7
1147	EST02169	Tyrosine kinase	HUMECK	GB	384	74.3
1701	EST00853	Unc-104	JN0114	NR	36	45.0
2121	EST01711	Valine-tRNA ligase	A29871	PIR	56	57.9
187	EST00152	Wilm's tumor-related protein	HUMQM	GB	228	99.6
1726	EST01588	XPR2 alkaline extracellular protease	826955	PIR	88	46.1
249	EST00275	Zinc Finger Proteins	S06551	PIR	25	57.7
413	EST01446	Zinc Finger Proteins	S00754	PIR	45	60.9
469	EST01460	Zinc Finger Proteins	C32891	PIR	34	54.3
833	EST01560	Zinc Finger Proteins	S00754	PIR	105	67.0
1230	EST02259	Zinc finger proteins	S00754	PIR	71	62.5
1496	EST02534	Zinc finger proteins	A34612	PIR	50	45.1
2324	EST01352	Zinc Finger Proteins	S10397	PIR	29	56.7

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There is little redundancy in EST sequencing according to the present invention. Of the nuclear-encoded messenger RNAs, the most common ESTs were to the  $\beta$ -actin (0.6% of the EST clones) and myelin basic protein genes (MBP, 0.5% of the clones). MBP, a highly expressed structural component of nerve tissue (Kamholtz, J., de Ferra, F., Puckett, C., & Lazzarini, R. *Proc. Natl. Acad. Sci., USA* 83: 4962-4966 (1986)), displays four alternate splicing forms, of which at least two are present among the ESTs reported here. Other common ESTs were Gs-alpha gamma-actin and both a- and alpha-tubulin.

By matching ESTs to known database sequences, a phenotypic characterization of the tissue begins to emerge. Protein superfamilies matched by ESTs were grouped into three broad functional categories to assess the biological spectrum represented by these randomly selected cDNA clones. Structural and metabolic classes comprised about 30% of the ESTs with database matches. Twenty-five percent were involved in regulatory pathways and the remainder were not classifiable. Eleven of the eighteen enzymes of glycolysis and the citric acid cycle are represented by at least one subunit or isozyme. In addition, several genes not previously known to be expressed in the brain were matched, including spermine/spermidine acetyltransferase (Casero, R., Celano, P., Ervin, S., Applegren, N., Wiest, L. & Pegg, A. *J. Biol. Chem.* 266: 810-814 (1991)) and osteopontin (Young, M., Kerr, J., Termine, J., Wewer, U., Wang, M., McBride, W. & Fisher, L. *Genomics* 7:491-502 (1990)).

30

#### EXAMPLE 5

##### Mapping of ESTs to Human Chromosomes

Randomly selected ESTs corresponding to SEQ ID NOs. were assigned to chromosomes via PCR (see Table 3). Oligonucleotide primer pairs were designed from EST

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sequences to minimize the chance of amplifying through an intron. The oligonucleotides were 18-23 bp in length and designed for PCR amplification using the computer program INTRON (National Institutes of Mental Health, Bethesda, MD). The program is based on the assumptions that: 1) introns are genomic sequences that interrupt the coding and noncoding sequences of genes (Smith, J. Mol. Evol. 27:45-55 (1988)); 2) there are consensus sequences for splice junctions (Shapiro, et al., Nucl. Acids Res. 15:7155-7174 (1987)); and 3) that 90% of the human genes studied have 3' untranslated regions of mRNA not interrupted by introns in the genomic DNA (Hawkins, Nucl. Acids Res. 16:9893-9908 (1988)).

The program evaluates the likelihood that a given GG or CC dinucleotide represents a former exon-intron boundary. Specifically, every input strand is processed by the INTRON program twice, first evaluating the sense mRNA strand, and then processing the complementary or anti-sense strand. The program evaluates each sequence by finding all GG or CC pairs (possible former splice sites), searching for STOP codons in all three reading frames, and analyzing the GG or CC pairs surrounded by stop codons. All regions of the EST that are unlikely to contain splice junctions based on CC content, GG content, and stop codon frequency are then marked by the program in uppercase.

The creation of PCR primers from known sequences is well known to those with skill in the art. For a review of PCR technology see Erlich, H.A., PCR Technology; Principles and Applications for DNA Amplification. 1992. W.H. Freeman and Co., New York. ESTs were examined for the presence of stop codons in each reading frame and for consensus splice junctions. The presence of stop codons and absence of splice junction sequences are more characteristic of 3' untranslated sequences than of introns. The untranslated sequences are unique to a given gene; thus, primers from

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these regions are less likely to prime other members of a gene family or pseudogenes.

The primers were used in polymerase chain reactions (PCR) to amplify templates from total human genomic DNA. PCR conditions were as follows: 60 ng of genomic DNA was used as a template for PCR with 80 ng of each oligonucleotide primer, 0.6 unit of Tag polymerase, and 1 uCi of a <sup>32</sup>P-labeled deoxycytidine triphosphate. The PCR was performed in a microplate thermocycler (Techne) under the following conditions: 30 cycles of 94°C, 1.4 min; 55°C, 2 min; and 72°C, 2 min; with a final extension at 72°C for 10 min. The amplified products were analyzed on a 6% polyacrylamide sequencing gel and visualized by autoradiography. If the size of the resulting product was equivalent to the EST from which the primers are derived, then the PCR reaction was repeated with DNA templates from two panels of human-rodent somatic cell hybrids; BIOS PCRable DNA (BIOS Corporation) and NIGMS Human-Rodent Somatic Cell Hybrid Mapping Panel Number 1 (NIGMS, Camden, NJ).

PCR was used to screen a series of somatic cell hybrid cell lines containing defined sets of human chromosomes for the presence of a given EST. DNA was isolated from the somatic hybrids and used as starting templates for PCR reactions using the primer pairs from EST sequences selected above. Only those somatic cell hybrids with chromosomes containing the human gene corresponding to the EST will yield an amplified fragment. ESTs were assigned to a chromosome by analysis of the segregation pattern of PCR products from hybrid DNA templates. For a review of techniques and analysis of results from somatic cell gene mapping experiments. (See Ledbetter et al., *Genomics* 6:475-481 (1990).) The single human chromosome present in all cell hybrids that give rise to an amplified fragment represents the chromosome containing that EST.

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The assignment of 100 ESTs and corresponding genes to chromosomes by PCR is shown in Table 3.



Table 3: Assignment of ESTs to Chromosomes by PCR

SEQ ID	EST#	Chr	PRIMER #1	PRIMER #2
5	EST00012	1	TCCAGGCAATCCCAGAATAG	CTAATTGAGCTCACTGGCCC
57	EST00058	1	CTGTTTGCAAGTTTCAAAGC	GCCATTTCTAACAACCAGAG
64	EST00066	1	GCCATTGTGCTGAATAGAGT	GTTAGTGTTCCTTAGCAAG
83	EST00079	1	CAGCTAATTGACCTGGGCTA	CAACATGCCTCTGAGCTTTAG
83	EST00079	1	GGCAGAGCATAATGAGTATA	CATATGCATATGGTCCCTAT
91	EST00086	1	AGTTTAGATGGAGGCTGTC	TCTGCCCTAATGCGCAGGCT
105	EST00365	1	CTTAATCACCTCCCTTTTGT	CCTTAGTTGGAGATAAGGTC
109	EST00095	1	AGTCTAATCCTGTACACTTG	CGGGCTTTCTCTGAATTGGT
116	EST00100	1	TTAGAAGTGCCCATGGGAGG	TTTAAAGGCTCTGGAGTGTT
141	EST00118	1	CTCAGAGAACTTAGGTGAA	CTACAGAATCAATTCACCAG
220	EST00372	1	AAGTTGCACATTGCCCAAGG	ATAGTACTGCAAGGTTATTC
237	EST00187	1	TTACAAATTTCTCTTGACGC	CTGAAGGAGCACAGTTTCTC
242	EST00192	1	GGATCAGATAATCAAACAGG	GCTTAGGATATGAATGCATA
259	EST00202	1	GCATCACAGTTTAACTGAGG	CTACATATTTGTGCCTCCTT
269	EST00293	1	CTGTTGCTGTGAGTAGCTT	CTTTTGACCCAGTGAAACTT
299	EST00249	1	GATCATGCAGACGTAGATAT	CCAACCTCCTGCCAGATCATT
1651	EST00810	1	TAGTCGCTGTAAGTTGATT	GCTTTGCTGGATGCTTCATT
16	EST00021	2	CAGGCAAGTTTCTTCCAGGA	TCAGACCCATGGTCAGCTT
1898	EST01013	2	GGCTGAGAACGGTTAGCATA	CCCTCAGCTTAGGGGAATG
8	EST00234	2	TAGAAGGCAAACATATGTCCC	GGTTGAGGATTGGCTTTTAC
36	EST00037	2	AGCCAGAAGGCTGCTTAAAG	GCAGTGAACCAGTACTCCTA
123	EST00106	2	GTCTAATTGTATAACCTTCAG	GATAGATTGTATAAGAAGCC
192	EST00155	2	GATTTATGTCTGGGAATAA	GCAGCATGTGAAGAATGAT
200	EST00162	2	TTTAATGGGTGGTGGGAGCT	CGATGCACATCCTTCTCCAT
284	EST00216	2	CCTAAGAATTCGTTTGGCTC	GTCTGGCACATAATAGATTG
102	EST00248	3	ATACTACATCTAGTCTGG	TTACAGTTCTGTGGTTTC
167	EST00138	3	AAACAGCTGCGGAGTACA	AAAGGATCCTCCACTCCAGA
12	EST00274	3	CCTAGCAAACCTCATACACAC	CATAAGTGAATGGACACAGG
60	EST00062	3	ACACATTAACGGTGTGTCAG	GGAATCAGCCCTTGAGGACT
77	EST00257	3	AAGCTCACAACGCAGATCTG	CTGGAACAGCTTACAAAGGT
107	EST00093	3	ATTGAACCTCTGTCAACAGTG	TGTAAAACAAAGGCCAAACT
108	EST00094	3	AL2 - GCAGGATGTCACTCTTTGAG	AGCACACATTATCTACCACGGC
1706	EST00857	3	AL2 - GCAGGATGTCACTCTTTGAG	CCAGCACACATTATCTACCACG
37	EST00038	4	AACCTCGCAGTCATGAGAAC	TGTATCGGGCAGTTCTCAG
6	EST00013	4	CACATGTTCTCCCTCTTTCA	GCATTTTGGAGCTCTTCCGT
37	EST00038	4	AL2 - GGAAGTACAGGATTGGC	TTAGAGATGGGATGATGCCG
31	EST00033	5	TGGGTACCCCTAAGGTGTTG	GACTAATCTAAGGTCTAGG
28	EST00030	5	AGATAAGTTAGGAAGCTGGT	ACTCACTGCTAGTATCATCC
59	EST00061	5	AAAGTTTCTTAGCACCCCCC	CAGACTTTGACAAAAGAATC
74	EST00073	5	ATCAGACACGTGGCAGGGTT	AAGTCCCTGAGGGTGCAGAA
121	EST00104	5	TGAAGGCAGCTGCTAAATCT	GGATGTATTGATCTGACTCA
149	EST00123	5	ATACTGTCAACGGAGGGTGA	GTCTGCAGGTTTCTCCTTGA
235	EST00185	5	TTACTGTCCCATCAGATATC	TACACTCTTAAAGGATATG
1643	EST00803	5	GAGCGTTTAAAGAGATTCT	TACAGACAGCCATGTTCCAA
1677	EST00835	5	AL2 - TCTCCAACACAGTCATGC	CGGATGCCATCATATACC
23	EST00026	5	CCTGCAGTGACACTTAACAT	CTGCTCACCTGAAATTGATAC
121	EST00104	5	AL2 - CAGATCAATACATCCTCTGGG	CTGTGCAGTGGTGAGTAAAGG

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SEQ ID	EST#	Chr	PRIMER #1	PRIMER #2
1	EST00007	6	TAGTTGATGGTCTGGGTTAT	GAAATCCCAGGGAGACAATG
19	EST00023	6	CAACTTACATTAGGGGTTTG	GACCTCATTAGAAAGAGCCCA
155	EST00129	6	GGAAGCTGCCATATAAGCTC	TCAGTGTGCTACAATCTACC
224	EST00356	6	GCTGTATGTTAACCCTTTGT	TGGAACCCCTCAAACACTGCT
288	EST00219	6	ACTTTCATGTTGAGAAGTAT	ATCTAGCTGAAACATTGCTG
1638	EST00798	6	CTTCATCTGTTAACTGTTGA	TGAAAATGAGTCACAGGCAG
1675	EST00833	6	AL2 - ACCCAGTCTCTCAAAGACC	GGTTTACCATTTCAGAGGC
22	EST00301	6	CTCCGTGATTACCTTCATCT	TTGTAGGTATCTCTGTCAGCT
207	EST00167	7	GGTGCTACTTTGTGAATGCT	AGCAATGTGATTTTGTAGG
137	EST00272	7	AGTGGTCACTATCTACATGG	GATTGAGAATTACTAAGCCG
1659	EST00817	7	TGTATAGGCTCTACATAAAG	CTTAATCATGGATTCTTCGT
1680	EST00838	7	AL2 - GTTCTTTCCAGGTATGC	TTGTTGGTACTGAGGAAGTGCG
292	EST00223	8	TGCAGCAGTGACCATGAGAA	ATCATCTTTCCACGCGGCTT
134	EST00375	9	TCTGGGCTTCTGTGGTTCAA	CTGGCTGCTCAGCAACTCAT
1906	EST01021	9	GGATGTTTTCTATGTGACGA	TTCCAGTGCCCCCTTTTGTCC
1645	EST00804	10	CTCCTTTGGGACAAACAAC	CCAACCCAAACATATTCTA
20	EST00024	10	AGCTGTTCTGAGAGATGCA	CCTGTGGAAGAAAGACTTTC
157	EST00131	10	TCAGCAACAGGTCACTTTGG	CTAAGCATCTGCATGTCCAG
172	EST00142	10	TACTAGCATTTCTTACTCTC	TATGCTGATTGTTTGCACCT
250	EST00197	10	GGTGATTAGAGAGTCTGTTG	GAAGCTCTGTAGTGTCTAAA
133	EST00111	11	GGAAATTAGGCTTAGCTCAC	GTGAGAATACTTAGAGTCC
178	EST00294	11	GTTTGAAGGAAGTGATTTC	TAGGGCCACCTCCAGTTCAT
10	EST00016	11	GTCTTTGGATTCTACGTAGA	CGATAATGACATTTCTTCTGG
126	EST00109	11	AL2 - CTAACCACAACCCACATTG	CCTCAGCAGCAAGAGAATGG
7	EST00014	12	AACTTGCAACATAAATACTAG	GAGCAATGATTTCTAACAGT
254	EST00200	13	TTGTGTACTGTCTGATAGAC	TAAGCCATGGGCATCTATAA
2409	EST00273	13	GCAAGATGATGGAACATCCC	TTCTTCTGGAGGCTCTACA
170	EST00295	14	GCTGCTTAAGGCCACTTTTG	CTTAGAGGATCATAGGTCTG
255	EST00201	14	CCAGGAGAGTAAGAAGATCA	GCAGAGTTGAATATGAACCT
290	EST00221	14	GTGCCAAGATGGCTCATGTA	GTATAGCTTTAAGCCAGTTC
293	EST00224	14	AATGCATTATGCCTGGTCTT	GGAAAAGTCTAGAACTTAGT
1664	EST00822	14	GGGTGAGAATTAAGAGGTCT	GTTTCATCTCTAACTCCTTTC
315	EST00008	14	AAGCTGGCTGGGAAATGTTC	GTCATGCTAGTAACTTACAC
1689	EST00845	14	AL2 - AGGAGGAAGCTGAAATCC	GGAAAGTCCATAAGAGACTCACC
95	EST00088	15	GTGACAGACCATGTCTATTG	AAGTGAGCGATTGCACCTTC
205	EST00165	15	AGGATGACCTGAGTGAGCTG	CCATGGCAGCAAGGAACCTC
33	EST00034	16	TGTGTGAAAGGGAGTCTTGT	CCATTTTGACTGTTCCATAG
247	EST00279	16	TGGCTAGGGCAGGCCTTAAA	GAGAAGAATATCAAATGGGG
18	EST00373	16	CCATCTGTGTCCCAATTAAGC	AGGGAAGAAGTCTAGAGCGA
68	EST00068	17	CAAAGACGGGAGACGAATGA	AGTGGAAACGCGTGCCATATG
1652	EST00811	17	GAGCTGCATGTTGATAAGTA	TTGACTTAAGCTGACCTTAA
1702	EST00854	17	AL2 - TTGCTGTGGAATCCATGAGAG	GGCAAGTGATCTGTTCTTGG
84	EST00080	19	AGAGATGTCAGTCCATTATC	CTATTCCACCTTACTCAAGG
223	EST00368	19	CATCATGTCGGAGACGCATT	TGGATGACCTGAGTCTGCAG
21	EST00025	20	AGTTCTGGAGGCTAGGAGTT	ATGTAAGGACCCCTAGATGG
210	EST00168	20	TGTCAACTTCCCTTTGGCCT	GAAGCTTGCTCATTGAGGAA
136	EST00113	20	AL2 - TCGGAGAAGTTGCAGTTCTG	GTTAAAAGCTGTTAGACGGGGC
120	EST00103	22	CACTGACTGACTCCTCTTTA	GGAAACCGTAACCTCCATAG
313	EST00276	X	ATTGACCTTCAATGTAATAA	TGGATTGGGCAAAATAG

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<u>SEQ ID</u>	<u>EST#</u>	<u>Chr</u>	<u>PRIMER #1</u>	<u>PRIMER #2</u>
162	EST00133	X	ATGTGAGCATCTATACCTGC	AATGAAGGCATGAGAATAGG
1669	EST00827	X	CGGACAACTAGGATAAATGC	TACGCGTTTGAATGGCTTGA
1917	EST01029	X	GAATAGCATTATTAGCCAGT	GGACCTATTGGAGATCTACT
1708	EST00858	X	AL2-AAGGCGAGGATTATGTGC	TTCTACTGGGTACACTTCGACC

Abbreviation: AL2: Amino-Link-2 Fluorescent Tag, Chr.: Chromosome.

The foregoing techniques have been used to further localize 9 ESTs and their associated genes to precise locations onto chromosome 6 or chromosome X, as reflected in Table 4A (in Example 7 below), using sublocalization techniques that employ somatic cell hybrids. ESTs were used as hybridization probes and mapped to other chromosomes using techniques disclosed in Example 7. Somatic cell hybrids were prepared that contained defined subsets of chromosomes 6 and X. Methods for preparing and selecting somatic cell hybrids are known in the art. For a review of an exemplary procedure to generate somatic cell hybrids containing the short arm of human chromosome 6, see Zoghbi, et al., *Genomics* 9(4):713-720 (1991). For a general review of somatic cell hybridization see Ledbetter et al. (supra). The hybrids were processed to obtain DNA and analyzed by PCR and by fluorescence in situ hybridization. SEQ ID NOS 19, 22, 1, 224, 288 mapped to chromosome 6, while SEQ ID NOS 162, 1917, 1699 and 1899 mapped to chromosome X using somatic cell hybrids.

20

#### EXAMPLE 6

##### Mapping of All ESTs to Human Chromosomes

The procedure of Example 5 is repeated for all of the ESTs from Examples 1 and 2 not previously mapped to human chromosomes. Data are generated corresponding to the data in Table 3 for all of the unmapped ESTs. As previously mentioned, virtually all of the ESTs will map to a unique chromosomal location. The inability of any ESTs to localize to a unique location will be readily ascertainable during the mapping process.

30

Physical mapping of the type reported in Table 4 on all the EST clones reported here would provide human chromosome markers spaced on average every 1.2 megabases and would roughly double the number of expressed sequences that have been localized to chromosomes (McKusick, V. FASEB

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J. 5: 12-20 (1991)). Mapped ESTs are also a new resource to identify candidates for the estimated 5000 single-locus disease-associated genes (Id.).

#### EXAMPLE 7

5           Alternative Technique for Mapping to Chromosomes  
          Mapping of ESTs to chromosomes using fluorescence in situ  
          hybridization

10           This technique was used to map an EST to a particular location on a given chromosome. Cell cultures, tissue, or whole blood were used to obtain chromosomes.

          0.5 ml. of whole blood was added to RPMI 1640 and incubated 96 hours in a 5%CO<sub>2</sub>/37°C incubator. 0.05 ug/ml colcemide was added to the culture one hour before harvest. Cells were collected and washed in PBS. The suspension was  
15           incubated with a hypotonic solution of KCl added dropwise to reach a final volume of 5 ml. The cells were spun down and fixed by resuspending the cells in methanol and glacial acetic acid (3:1). The cell suspension was dropped onto glass slides and dried.

20           The slides were treated with RNase A and washed then dehydrated in a series of increasing concentrations of ethanol.

          The EST to be localized was nick-translated using fluorescently labeled nucleotide (Korenberg, Jr., et al.,  
25           Cell 53(3):391-400 (1988)). Following nick translation, unincorporated label was removed by spin dialysis through Sepharose. The probe was further extracted with phenol-chloroform to remove additional protein. The chromosomes were denatured in formamide using techniques known in the art  
30           and the denatured probe was added to the slides. Following hybridization, the cells were washed. The slides were studied under a fluorescent microscope. In addition, the chromosomes can be stained for G-banding or Q-banding using techniques known in the art.

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The resulting metaphase chromosomes had fluorescent tags localized to those regions of the chromosome that were homologous to the EST. Thus, a particular EST was localized to a particular region on a given chromosome. In this manner, SEQ ID NOs 396, 485, 506, 1880 and 1894 were mapped using fluorescent in situ hybridization to locations on chromosomes 17, 7, 10 and 1 respectively (See Table 4B below). For a review of the technique see Verma et al., *Human Chromosomes: A Manual of Basic Techniques*. Pergamon Press, NY (1988), which is hereby incorporated by reference.

Table 4: Precise Chromosomal Localization of ESTs

	SEQ ID	EST#	Map Location
	-----	-----	-----
15	A.	19	EST00023 6p
		22	EST00301 6p
		1894	EST01643 6p21
		1	EST00007 6q
		224	EST00356 6q
		288	EST00219 6q
	20	162	EST00133 Xp11.21 - Xp21.2
		1917	EST01029 Xp11.21 - Xp21.2
25		1669	EST00827 Xq26 - Xq27.1
		1899	EST01014 Xq28
	B.	1880	EST01634 1q32
		485	EST01466 7p13
		506	EST01471 10q11.2
		396	EST01443 17q25

## EXAMPLE 8

Automated DNA Sequencing Accuracy

ESTs that match human sequences in GenBank are excellent tools for the analysis of the accuracy of double-strand automated DNA sequencing. Ninety EST/GenBank matches were examined for the number of nucleotide mismatches and gaps required to achieve optimal alignment by the Genetics Computer Group (GCG) program BESTFIT (Devereux et al, *Nucleic Acids Research* 12: 387 (1984)).

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The number of mismatches, insertions and deletions was counted for each hundred bases of the sequence (Table 5). As expected, the sequence quality was best closest to the primer and decreased rapidly after about 400 bases. The number of deletions and insertions relative to the GenBank reference sequence increased five- to ten-fold beyond 400 bases, while the number of mismatches doubled. The average accuracy rate for individual double-stranded sequencing runs was 97.7% to 400 bases.

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TABLE 5. Accuracy Of Single-Run Double-Stranded Automated Sequencing

<u>Bases from Primer</u>	<u>Mismatches/ Ambiguities</u> <sup>+</sup>	<u>Gaps Insertions</u> <sup>+</sup>	<u>Percent Deletions</u> <sup>+</sup>	<u>Aligned Accurate</u>	<u>Bases</u>
101 - 200	1.45	0.18	0.19	98.2	8,800
201 - 300	1.72	0.25	0.11	97.9	8,130
301 - 400	2.07	0.98	0.37	96.6	5,404
>400	3.53	2.63	1.06	92.8	3,197

ESTs statistically identical to known human sequences and those matching mitochondrial and ribosomal genes were aligned with sequenced from GenBank using the GCG program BESTFIT. The first 85 nucleotides was polylinker sequence which was not aligned with the pBluescript SK reference sequence. Tabulation of errors began 15 bases into the BESTFIT alignment and thus is reported beginning with bases 101-200. <sup>+</sup>Error rates are reported as number of mismatches, insertions, or deletions per hundred aligned bases. "Mismatches" includes ambiguous base calls.



## EXAMPLE 9

Probability of ESTs Containing Coding Sequences

The ESTs of the present invention were statistically evaluated using the coding-region prediction program CRM via the GRAIL server (Uberbacher, E. & Mural, R. Proc. Natl. Acad. Sci. USA, 88: 11261-5 (1991)). The CRM program uses a neural network to combine results from several different coding regions by looking at different 6 bp sequences found in coding exons and in introns. The program additionally conducts reading frame searches and assesses randomness at the third position of codons. This protocol categorizes sequences as having an excellent, good, marginal, or poor probability of containing coding regions. The results are reported in Tables 6-9. There were 219 ESTs categorized as "excellent" (Table 6); 120 categorized as "good" (Table 7); 113 categorized as "marginal" (Table 8); and 1743 categorized as "poor" (Table 9). These results indicate that most ESTs of the present invention comprise noncoding regions.

Table 6: ESTs with Excellent Probability of Containing Coding Sequence

SEQ ID#	EST#	SEQ ID#	EST#	SEQ ID#	EST#	SEQ ID#	EST#
7	EST00014	973	EST01987	1807	EST00941	2373	EST01393
15	EST00020	979	EST01993	1809	EST00943	2374	EST01394
48	EST000291	980	EST01994	1820	EST00951	2393	EST01417
62	EST00064	986	EST02000	1829	EST00958	2394	EST01418
66	EST00067	1000	EST02014	1849	EST00975	2396	EST01420
75	EST00074	1004	EST02018	1860	EST00983		
98	EST00260	1007	EST02021	1866	EST00989		
106	EST00092	1018	EST02032	1871	EST00994		
108	EST00094	1021	EST02035	1888	EST01005		
114	EST00098	1034	EST02050	1890	EST01007		
115	EST00099	1047	EST02063	1892	EST01009		
124	EST00107	1090	EST02109	1903	EST01018		
128	EST00252	1096	EST02115	1904	EST01019		
156	EST00130	1115	EST02135	1914	EST01026		
164	EST00135	1118	EST02138	1930	EST01040		
166	EST00137	1129	EST02149	1944	EST01050		
174	EST00296	1133	EST02153	1949	EST01054		
179	EST00145	1141	EST02163	1962	EST01062		
183	EST00148	1163	EST02187	1973	EST01071		
201	EST00163	1183	EST02208	1977	EST01075		
205	EST00165	1243	EST02272	1982	EST01080		
215	EST00172	1264	EST02293	1991	EST01088		
230	EST00181	1265	EST02294	1993	EST01090		
253	EST00199	1266	EST02295	2000	EST01097		
263	EST00203	1287	EST02317	2001	EST01098		
268	EST00369	1308	EST02338	2012	EST01106		
270	EST00207	1324	EST02354	2013	EST01107		
271	EST00283	1344	EST02374	2024	EST01117		
273	EST00208	1356	EST02386	2043	EST01131		
276	EST00211	1365	EST02396	2051	EST01138		
281	EST00214	1383	EST02415	2056	EST01142		
285	EST00286	1399	EST02433	2058	EST01144		
333	EST00394	1401	EST02435	2059	EST01145		
336	EST00397	1405	EST02439	2064	EST01149		
339	EST00400	1417	EST02452	2090	EST01167		
362	EST00418	1451	EST02487	2094	EST01171		
389	EST00440	1457	EST02493	2116	EST01192		
441	EST00481	1463	EST02500	2117	EST01193		
454	EST00493	1473	EST02510	2128	EST01202		
476	EST00509	1479	EST02516	2131	EST01205		
493	EST00522	1516	EST02555	2134	EST01208		
504	EST00529	1528	EST02569	2144	EST01216		
516	EST00538	1531	EST02572	2145	EST01217		
518	EST00540	1544	EST02586	2150	EST01222		
551	EST01482	1551	EST02593	2155	EST01227		
552	EST00565	1558	EST02601	2161	EST01231		
559	EST00570	1561	EST02604	2163	EST01238		
582	EST00592	1581	EST02625	2174	EST01242		
602	EST00606	1586	EST02631	2176	EST01244		
606	EST00609	1591	EST02636	2189	EST01255		
608	EST00611	1616	EST02661	2214	EST01272		
621	EST00620	1624	EST02670	2225	EST01278		
635	EST00629	1630	EST02676	2227	EST01279		
642	EST00634	1637	EST00796	2233	EST01284		
644	EST00636	1639	EST00799	2235	EST01286		
687	EST00671	1649	EST00808	2236	EST01287		
700	EST00683	1651	EST00810	2255	EST01302		
743	EST00714	1677	EST00835	2259	EST01304		
753	EST00721	1682	EST00839	2263	EST01307		
760	EST00726	1694	EST00849				
764	EST00729	1706	EST00857	SEQ ID#	EST#		
808	EST00761	1708	EST00858	2267	EST01756		
823	EST01864	1710	EST00860	2281	EST01321		
834	EST00771	1716	EST00865	2283	EST01322		
886	EST01886			2300	EST01333		
919	EST01921	SEQ ID#	EST#	2303	EST01335		
930	EST01933	1718	EST00867	2303	EST01335		
936	EST01939	1731	EST00879	2314	EST01345		
948	EST01957	1742	EST00887	2334	EST01358		
965	EST01978	1746	EST00891	2339	EST01362		
		1760	EST00903	2342	EST01365		
		1767	EST00907	2348	EST01371		
		1769	EST00909	2358	EST01379		
		1777	EST00913	2367	EST01388		

Table 7: ESTs with Good Probability of Containing Coding Sequence

<u>SEQ ID#</u>	<u>EST#</u>				
20	EST00024	1041	EST02057	2362	EST01383
72	EST00071	1083	EST02102	2378	EST01397
82	EST00078	1099	EST02118	2399	EST01423
88	EST00084	1105	EST02124	2407	EST02714
137	EST00272	1113	EST02133		
177	EST00328	1139	EST02161		
193	EST00156	1146	EST02168		
200	EST00162	1196	EST02221		
218	EST00175	1210	EST02238		
228	EST00179	1233	EST02262		
247	EST00279	1285	EST02314		
264	EST00204	1331	EST02361		
267	EST00297	1388	EST02421		
296	EST00228	1418	EST02453		
371	EST00426	1439	EST02475		
385	EST00436	1502	EST02540		
392	EST00442	1537	EST02578		
414	EST00460	1563	EST02606		
433	EST00474	1599	EST02644		
453	EST00492	1602	EST02647		
471	EST00505	1693	EST00848		
496	EST00525	1695	EST00850		
524	EST00544	1729	EST00877		
526	EST00546	1730	EST00878		
529	EST00549	1738	EST00883		
549	EST00563	1739	EST00885		
557	EST00569	1743	EST00888		
578	EST00588	1768	EST00908		
596	EST00602	1780	EST00916		
607	EST00610	1804	EST00938		
619	EST00619	1805	EST00939		
657	EST00646	1811	EST00945		
660	EST00649	1819	EST00950		
689	EST00673	1826	EST00956		
695	EST00679	1830	EST00959		
699	EST00682	1845	EST00971		
729	EST00703	1848	EST00974		
742	EST00713	1853	EST00977		
747	EST00717	1967	EST01066		
755	EST00723	1992	EST01089		
759	EST00725	1994	EST01091		
776	EST00738	<u>SEQ ID#</u>	<u>EST#</u>		
778	EST00740	1997	EST01094		
782	EST01551	2046	EST01134		
829	EST00768	2101	EST01177		
835	EST00772	2102	EST01178		
836	EST00773	2105	EST01181		
862	EST01872	2106	EST01182		
881	EST01881	2141	EST01213		
<u>SEQ ID#</u>	<u>EST#</u>	2184	EST01251		
884	EST01884	2196	EST01260		
924	EST01926	2203	EST01264		
929	EST01932	2232	EST01283		
938	EST01941	2308	EST01339		
971	EST01985	2345	EST01368		
995	EST02009	2346	EST01369		
996	EST02010	2351	EST01373		
1031	EST02046	2354	EST01375		
		2355	EST01376		
		2359	EST01380		

Table 8: ESTs with Marginal Probability of Containing Coding Sequence

<u>SEQ ID#</u>	<u>EST#</u>		
11	EST00018	1222	EST02251
12	EST00274	1224	EST02253
24	EST00027	1228	EST02257
45	EST00364	1267	EST02296
79	EST00076	1301	EST02331
90	EST00302	1397	EST02431
110	EST00096	1448	EST02484
144	EST00120	1480	EST02517
145	EST00121	1493	EST02531
192	EST00155	1499	EST02537
222	EST00177	1503	EST02541
234	EST00184	1527	EST02568
277	EST00212	1536	EST02577
319	EST00381	1548	EST02590
368	EST00423	1562	EST02605
370	EST00425	1572	EST02615
387	EST00438	1575	EST02618
402	EST00451	1595	EST02640
415	EST00461	1608	EST02653
418	EST00464	1610	EST02655
426	EST00470	1621	EST02667
503	EST00528	1627	EST02674
517	EST00539	1629	EST02677
522	EST00543	1631	EST02678
532	EST00551	1683	EST00840
540	EST00557	1692	EST00847
570	EST00580	1751	EST00895
573	EST00583	1756	EST00900
576	EST00586	1764	EST02690
613	EST00615	1770	EST00910
617	EST00617	1793	EST00929
626	EST00622	1847	EST00973
681	EST00665	1877	EST00998
726	EST00700	1897	EST01012
727	EST00701	1900	EST01015
738	EST00711	1939	EST01655
745	EST00715	1940	EST01046
752	EST00720	1954	EST01058
791	EST00746	<u>SEQ ID#</u>	<u>EST#</u>
795	EST00749	1990	EST01087
803	EST00756	2008	EST01103
845	EST00777	2031	EST01123
852	EST00782	2041	EST01130
854	EST00784	2044	EST01132
907	EST01907	2060	EST01146
912	EST01912	2100	EST01176
935	EST01938	2136	EST01210
<u>SEQ ID#</u>	<u>EST#</u>	2153	EST01225
968	EST01981	2204	EST01265
985	EST01999	2212	EST01270
988	EST02002	2248	EST01297
1043	EST02059	2250	EST01299
1081	EST02100	2266	EST01310
1089	EST02108	2309	EST01340
1116	EST02136	2347	EST01370
1134	EST02154	2388	EST01406
1205	EST02233	2398	EST01422
		2405	EST01427

SEQ ID#	EST#	253	EST00317	254	EST00235	255	EST00174	256	EST00453
1	EST00007	257	EST00354	258	EST00166	259	EST00008	260	EST00454
2	EST00009	259	EST00365	260	EST00167	261	EST000378	262	EST00455
3	EST00010	261	EST00093	262	EST00331	263	EST00379	264	EST00456
4	EST00011	263	EST00095	264	EST00168	265	EST00380	266	EST00457
5	EST00012	265	EST00281	266	EST00332	267	EST00382	268	EST01444
6	EST00013	267	EST00318	268	EST00169	269	EST00383	270	EST00458
8	EST00234	269	EST00097	270	EST00170	271	EST00384	272	EST00459
10	EST00016	271	EST00100	272	EST00171	273	EST00385	274	EST01445
14	EST00019	273	EST00319	274	EST00173	275	EST00386	276	EST00462
16	EST00021	275	EST00101	276	EST00176	277	EST00387	278	EST00463
17	EST00022	277	EST00102	278	EST00372	279	EST00388	280	EST00465
18	EST00023	279	EST00103	280	EST00359	281	EST00389	282	EST00466
21	EST00025	281	EST00104	282	EST00356	283	EST00390	284	EST00467
23	EST00026	283	EST00105	284	EST00178	285	EST00391	286	EST01447
25	EST00028	285	EST00106	286	EST00333	287	EST00392	288	EST00468
27	EST00029	287	EST00108	288	EST00180	289	EST00393	290	EST01448
28	EST00030	289	EST00109	290	EST00334	291	EST00395	292	EST00469
29	EST00031	291	EST00320	292	EST00182	293	EST00396	294	EST01449
30	EST00032	293	EST00321	294	EST00183	295	EST00398	296	EST01451
31	EST00033	295	EST00355	296	EST00185	297	EST00402	298	EST00471
32	EST00233	297	EST00322	298	EST00186	299	EST00403	300	EST00473
33	EST00034	299	EST00111	300	EST00187	301	EST00404	302	EST01452
34	EST00035	301	EST00375	302	EST00188	303	EST00405	304	EST00475
35	EST00036	303	EST00112	304	EST00189	305	EST00406	306	EST00476
36	EST00037	305	EST00113	306	EST00335	307	EST01829	308	EST00477
39	EST00039	307	EST00114	308	EST00191	309	EST01830	310	EST00478
40	EST00040	309	EST00116	310	EST00192	311	EST01831	312	EST00479
41	EST00041	311	EST00117	312	EST00193	313	EST00407	314	EST00480
42	EST00042	313	EST00118	314	EST00194	315	EST00408	316	EST01454
46	EST00044	315	EST00323	316	EST00347	317	EST00409	318	EST01456
47	EST00046	317	EST00119	318	EST00196	319	EST00410	320	EST00482
49	EST00047	319	EST00122	320	EST00197	321	EST01433	322	EST00483
50	EST00048	321	EST00292	322	EST00198	323	EST00411	324	EST00485
51	EST00049	323	EST00236	324	EST00200	325	EST00412	326	EST00486
52	EST00052	325	EST00123	326	EST00201	327	EST00413	328	EST00487
53	EST00054	327	EST00124	328	EST00345	329	EST00414	330	EST00488
54	EST00055	329	EST00125	330	EST00337	331	EST00415	332	EST00489
55	EST00056	331	EST00126	332	EST00202	333	EST00416	334	EST00490
56	EST00057	333	EST00127	334	EST00357	335	EST00417	336	EST00491
57	EST00058	335	EST00128	336	EST00338	337	EST00419	338	EST00494
58	EST00059	337							

498	EST01467	600	EST01492	697	EST00680	799	EST00752	894	EST01894
499	EST01468	601	EST01493	698	EST00681	800	EST00753	895	EST01895
500	EST00527	603	EST01494	701	EST01522	801	EST00754	896	EST01896
501	EST02715	604	EST00607	702	EST00684	804	EST00757	897	EST01897
502	EST01469	605	EST00608	703	EST00685	805	EST00758	898	EST01898
507	EST00530	609	EST01496	704	EST00686	806	EST00759	899	EST01899
508	EST00531	610	EST00612	705	EST00687	807	EST00760	900	EST01900
509	EST01472	611	EST00613	706	EST00688	809	EST00762	901	EST01901
510	EST00532	612	EST00614	708	EST00689	810	EST00763	902	EST01902
511	EST00533	615	EST00616	709	EST00690	811	EST00764	903	EST01903
512	EST00534	616	EST01497	710	EST00691	813	EST00765	904	EST01904
513	EST00535	618	EST01498	711	EST00692	814	EST00766	905	EST01905
514	EST00536	620	EST01499	712	EST00693	815	EST01855	906	EST01906
515	EST00537	622	EST01843	713	EST00694	816	EST01856	908	EST01908
519	EST00541	623	EST00621	714	EST00695	817	EST01857	909	EST01909
520	EST00542	624	EST01500	715	EST01523	818	EST01858	910	EST01910
521	EST01474	625	EST01844	716	EST01524	819	EST01859	911	EST01911
523	EST01838	627	EST00623	717	EST01525	820	EST01860	914	EST01914
525	EST00545	628	EST01503	718	EST00696	822	EST01863	915	EST01915
527	EST00547	629	EST00624	719	EST01526	825	EST01866	916	EST01917
528	EST00548	630	EST01505	720	EST00697	826	EST01867	917	EST01919
530	EST01477	631	EST00625	721	EST01527	827	EST01558	918	EST01920
531	EST00550	632	EST00626	722	EST01528	828	EST00767	920	EST01922
533	EST00552	633	EST00627	723	EST00698	830	EST01559	921	EST01923
534	EST01478	634	EST00628	725	EST00699	831	EST00769	922	EST01924
535	EST00553	636	EST01507	728	EST00702	832	EST00770	923	EST01925
536	EST01479	637	EST00630	730	EST00704	837	EST01561	925	EST01927
537	EST00554	638	EST00631	731	EST00705	838	EST00774	926	EST01929
538	EST00555	640	EST01509	732	EST00706	839	EST01562	927	EST01930
539	EST00556	641	EST00633	733	EST00707	840	EST00775	928	EST01931
541	EST00558	643	EST00635	734	EST00708	841	EST00776	931	EST01934
542	EST01480	645	EST00637	735	EST00709	842	EST01563	932	EST01935
543	EST00559	646	EST00638	736	EST01532	843	EST01564	933	EST01936
544	EST00560	647	EST00639	737	EST00710	844	EST01565	934	EST01937
545	EST01481	648	EST00640	739	EST01534	846	EST00778	937	EST01940
547	EST00561	649	EST00641	740	EST01535	847	EST00779	939	EST01943
548	EST00562	651	EST00643	741	EST00712	848	EST01566	SEQ ID#	EST#
550	EST00564	652	EST01510	744	EST01537	849	EST01567	940	EST01944
553	EST00566	654	EST00644	746	EST00716	850	EST00780	941	EST01945
555	EST01483	655	EST00645	748	EST01850	851	EST00781	942	EST01947
556	EST00568	656	EST01513	749	EST00719	SEQ ID#	EST#	943	EST01948
558	EST01484	658	EST00647	750	EST01539	853	EST00783	944	EST01949
560	EST01485	659	EST00648	751	EST01540	855	EST00785	945	EST01950
561	EST00571	661	EST00650	754	EST00722	856	EST01568	946	EST01953
562	EST00572	662	EST00651	SEQ ID#	EST#	857	EST01868	947	EST01954
563	EST00573	663	EST00652	756	EST01541	858	EST01869	949	EST01958
564	EST00574	664	EST00653	758	EST00724	859	EST01870	950	EST01959
565	EST00575	665	EST00654	761	EST01544	860	EST00786	953	EST01962
566	EST00576	SEQ ID#	EST#	762	EST00727	861	EST01871	954	EST01963
567	EST00577	666	EST01514	763	EST00728	863	EST01873	956	EST01968
568	EST00578	667	EST00655	765	EST00730	864	EST00787	957	EST01969
569	EST00579	668	EST00656	766	EST00731	865	EST01569	958	EST01970
SEQ ID#	EST#	669	EST00657	767	EST00732	866	EST01874	959	EST01972
571	EST00581	670	EST00658	768	EST00733	867	EST01875	960	EST01973
572	EST00582	671	EST00659	770	EST00735	868	EST01876	961	EST01974
574	EST00584	672	EST00660	771	EST01546	869	EST00788	962	EST01975
575	EST00585	673	EST01515	772	EST00736	870	EST00789	963	EST01976
577	EST00587	674	EST01516	774	EST01548	871	EST00790	964	EST01977
580	EST00590	675	EST00661	775	EST00737	872	EST00791	966	EST01979
581	EST00591	676	EST00662	777	EST00739	873	EST00792	967	EST01980
583	EST00593	677	EST00663	779	EST00741	874	EST00793	970	EST01983
584	EST00594	678	EST01517	780	EST01549	875	EST00794	972	EST01986
585	EST00595	679	EST01518	781	EST01550	876	EST00795	974	EST01988
586	EST00596	680	EST00664	783	EST01552	877	EST01877	975	EST01989
587	EST01488	682	EST00666	785	EST01553	878	EST01878	976	EST01990
588	EST00597	683	EST00667	786	EST00742	879	EST01879	977	EST01991
589	EST00598	684	EST00668	787	EST00743	880	EST01880	978	EST01992
590	EST00599	685	EST00669	788	EST00744	882	EST01882	981	EST01995
591	EST01489	686	EST00670	789	EST00745	883	EST01883	982	EST01996
592	EST00600	688	EST00672	790	EST01554	885	EST01885	983	EST01997
593	EST00601	690	EST00674	792	EST00747	887	EST01887	984	EST01998
595	EST01840	692	EST00676	793	EST00748	889	EST01889	987	EST02001
597	EST00603	693	EST00677	794	EST01555	890	EST01890	988	EST02003
598	EST00604	694	EST00678	796	EST00750	892	EST01892	990	EST02004
599	EST00605	696	EST01521	797	EST00751	893	EST01893	991	EST02005

992	EST02006	1086	EST02105	1184	EST02209	1274	EST02303	1363	EST02394
994	EST02008	1087	EST02106	1185	EST02210	1275	EST02304	1364	EST02395
997	EST02011	1088	EST02107	1186	EST02211	1276	EST02305	1366	EST02397
999	EST02013	1091	EST02110	1187	EST02212	1278	EST02307	1367	EST02398
1001	EST02015	1093	EST02112	1188	EST02213	1279	EST02308	1368	EST02399
1002	EST02016	1095	EST02114	1189	EST02214	1280	EST02309	1370	EST02401
1003	EST02017	1097	EST02116	1190	EST02215	1281	EST02310	1372	EST02403
1005	EST02019	1098	EST02117	1191	EST02216	1282	EST02311	1373	EST02404
1006	EST02020	1100	EST02119	1192	EST02217	1283	EST02312	1375	EST02406
1008	EST02022	1101	EST02120	1193	EST02218	1284	EST02313	1376	EST02407
1009	EST02023	1102	EST02121	1194	EST02219	1286	EST02316	1377	EST02408
1010	EST02024	1104	EST02123	1195	EST02220	1288	EST02318	1378	EST02409
1011	EST02025	1106	EST02125	1197	EST02222	1289	EST02319	1379	EST02410
1012	EST02026	1107	EST02126	1198	EST02223	1290	EST02320	1380	EST02411
1013	EST02027	1108	EST02127	1199	EST02224	1291	EST02321	1381	EST02413
1014	EST02028	1109	EST02128	1200	EST02226	1292	EST02322	1382	EST02414
1015	EST02029	1110	EST02129	1201	EST02228	1293	EST02323		
1016	EST02030	1111	EST02131	1202	EST02229	1294	EST02324		
1017	EST02031	1112	EST02132	1203	EST02230	1295	EST02325		
1019	EST02033	1114	EST02134	1204	EST02232	1296	EST02326		
1022	EST02036	1117	EST02137	1206	EST02234	SEQ ID#	EST#		
1023	EST02037	1119	EST02139	1207	EST02235				
1024	EST02038	1120	EST02140	1208	EST02236	1298	EST02328		
1025	EST02040	1121	EST02141	1209	EST02237	1299	EST02329		
1026	EST02041	1122	EST02142	SEQ ID#	EST#	1300	EST02330		
1027	EST02042	1123	EST02143			1302	EST02332		
1028	EST02043	1124	EST02144	1211	EST02239	1303	EST02333		
1029	EST02044	1125	EST02145	1212	EST02240	1304	EST02334		
1030	EST02045	SEQ ID#	EST#	1213	EST02241	1305	EST02335		
1032	EST02048			1214	EST02242	1306	EST02336		
1033	EST02049	1127	EST02147	1215	EST02244	1307	EST02337		
1036	EST02052	1128	EST02148	1216	EST02245	1309	EST02339		
SEQ ID#	EST#	1130	EST02150	1217	EST02246	1310	EST02340		
		1131	EST02151	1218	EST02247	1311	EST02341		
1037	EST02053	1132	EST02152	1219	EST02248	1313	EST02343		
1038	EST02054	1135	EST02155	1220	EST02249	1314	EST02344		
1040	EST02056	1136	EST02156	1221	EST02250	1315	EST02345		
1042	EST02058	1137	EST02157	1223	EST02252	1316	EST02346		
1044	EST02060	1138	EST02159	1225	EST02254	1317	EST02347		
1045	EST02061	1140	EST02162	1226	EST02255	1318	EST02348		
1046	EST02062	1142	EST02164	1227	EST02256	1319	EST02349		
1048	EST02064	1143	EST02165	1232	EST02261	1320	EST02350		
1049	EST02065	1144	EST02166	1234	EST02263	1321	EST02351		
1050	EST02066	1145	EST02167	1235	EST02264	1322	EST02352		
1051	EST02067	1148	EST02170	1236	EST02265	1323	EST02353		
1052	EST02068	1149	EST02171	1237	EST02266	1325	EST02355		
1053	EST02069	1150	EST02172	1238	EST02267	1326	EST02356		
1054	EST02070	1152	EST02174	1239	EST02268	1327	EST02357		
1055	EST02071	1153	EST02175	1240	EST02269	1328	EST02358		
1056	EST02072	1154	EST02176	1241	EST02270	1329	EST02359		
1057	EST02073	1155	EST02177	1242	EST02271	1330	EST02360		
1058	EST02074	1156	EST02178	1244	EST02273	1333	EST02363		
1059	EST02075	1157	EST02180	1246	EST02275	1334	EST02364		
1060	EST02076	1158	EST02181	1247	EST02276	1335	EST02365		
1061	EST02078	1159	EST02182	1248	EST02277	1336	EST02366		
1062	EST02079	1160	EST02183	1249	EST02278	1337	EST02367		
1063	EST02081	1161	EST02184	1250	EST02279	1338	EST02368		
1064	EST02082	1162	EST02185	1251	EST02280	1339	EST02369		
1065	EST02083	1164	EST02188	1252	EST02281	1342	EST02372		
1066	EST02084	1165	EST02189	1253	EST02282	1343	EST02373		
1067	EST02085	1166	EST02190	1254	EST02283	1345	EST02375		
1068	EST02086	1167	EST02191	1255	EST02284	1346	EST02376		
1070	EST02088	1168	EST02193	1256	EST02285	1347	EST02377		
1071	EST02089	1169	EST02194	1257	EST02286	1349	EST02379		
1072	EST02090	1170	EST02195	1258	EST02287	1350	EST02380		
1073	EST02091	1171	EST02196	1259	EST02288	1351	EST02381		
1074	EST02092	1172	EST02197	1260	EST02289	1352	EST02382		
1075	EST02093	1173	EST02198	1261	EST02290	1353	EST02383		
1076	EST02094	1174	EST02199	1262	EST02291	1354	EST02384		
1077	EST02096	1175	EST02200	1263	EST02292	1355	EST02385		
1078	EST02097	1176	EST02201	1268	EST02297	1357	EST02387		
1079	EST02098	1177	EST02202	1269	EST02298	1358	EST02388		
1080	EST02099	1178	EST02203	1270	EST02299	1359	EST02390		
1082	EST02101	1179	EST02204	1271	EST02300	1360	EST02391		
1084	EST02103	1180	EST02205	1272	EST02301	1361	EST02392		
1085	EST02104	1182	EST02207	1273	EST02302	1362	EST02393		







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<u>SEQ ID#</u>	<u>EST#</u>
2389	EST01407
2391	EST01415
2392	EST01416
2395	EST01419
2397	EST01421
2401	EST01424
2403	EST01425
2404	EST01426
2406	EST02713
2409	EST00273

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## EXAMPLE 10

Functional Groupings of ESTs and Corresponding Genes

By matching new human ESTs to known sequences from other species, the apparent function of the gene corresponding to the EST can be ascertained. The data generated in Example 3 and 4 have been used to categorize 127 of the ESTs of the present invention, and their corresponding genes, into predicted functional groups. (These 127 are ESTs with database matches to sequences from other species for which a function was known.) Two different grouping schemes have been used.

The first scheme separates the sequences into three broad categories: metabolic; regulatory; and structural. These groupings are set out in Table 10.

The second grouping scheme separates the sequences into 13 specific categories: cell surface proteins; developmental control; energy metabolism; kinases and phosphatases; oncogenes; other metabolism-related polypeptides; peptidases and peptidase inhibitors; receptors; structural and cytoskeletal; signal transduction; transporters; transcription, translation, and subcellular localization; and transcription factors. These groupings are set out in Table 11.

Table 10: Three-Class Functional Groupings of ESTs

SEQ ID	EST#	Group	Putative Identification
1834	EST01620	M	AMP deaminase, brain
97	EST00289	M	Aconitase
691	EST00675	M	Alcohol dehydrogenase
2092	EST01700	M	Anion exchanger homolog AE3
396	EST01443	M	CDPdiacylglycerol-serine O-phosphatidyltransferase
1956	EST01663	M	Ca <sup>2+</sup> -transporting ATPase 2
1039	EST02055	M	Calcium channel
2192	EST01257	M	Diacylglycerol kinase, lymphocyte
1441	EST02477	M	Diamine acetyltransferase
2289	EST01325	M	Fatty acid synthase
310	EST00377	M	Fo ATPase beta subunit, mitochondrial
1667	EST00825	M	Gamma-aminobutyric acid transporter
1412	EST02446	M	Glutamate-aspartate carrier protein
1020	EST02034	M	Glutaminase
2326	EST01791	M	Inositol-1,4,5-trisphosphate 3-kinase
2173	EST01724	M	Lon protease
1427	EST02463	M	Long-chain-fatty-acid-CoA ligase
2226	EST01744	M	NAD(P) <sup>+</sup> transhydrogenase (B-specific)
1566	EST02609	M	Neutrophil oxidase factor
1681	EST01573	M	Nucleoside diphosphate kinase
2254	EST01751	M	Phosphatidylinositol-4,5-bisphosphate phosphodiesterase
93	EST00287	M	Processing enhancing protein
2297	EST01775	M	Prohormone cleavage enzyme
9	EST00376	M	Prolyl endopeptidase
1654	EST01572	M	Protochlorophyllide reductase
38	EST00374	M	RNA polymerase II 6th subunit (RPO26)
1715	EST01583	M	Ribosomal protein L18a
1856	EST01627	M	Ribosomal protein L1a
1974	EST01667	M	Ribosomal protein L3
301	EST00300	M	Ribosomal protein L30
22	EST00301	M	Ribosomal protein S10
2402	EST01826	M	Ribosomal protein S10
463	EST01459	M	Ribosomal protein YL10
2073	EST01697	M	Succinate dehydrogenase flavoprotein
2138	EST01715	M	Succinate dehydrogenase flavoprotein
1771	EST01601	M	Thiosulfate sulfurtransferase (rhodanese)
2121	EST01711	M	Valine-tRNA ligase
1726	EST01588	M	XPR2 alkaline extracellular protease
913	EST01913	M	Clathrin coat assembly protein AP50 homolog
1035	EST02051	M	J1 protein
969	EST01982	R	ADP-ribosylation factor 1
1126	EST02146	R	Calbindin D28
1910	EST01645	R	Calmodulin
485	EST01466	R	Calmodulin-dependent protein kinase, type II, beta
2302	EST01779	R	Discs-large tumor suppressor
188	EST00256	R	Enhancer of split
1229	EST02258	R	KUP protein
993	EST02007	R	Kinase 5 protein
2282	EST01764	R	Lamin B receptor
SEQ ID	EST#	Group	Putative Identification
161	EST00247	R	MARCKS (myristoylated alanine-rich protein kinase)
769	EST00734	R	MARCKS homolog
1386	EST02418	R	MARCKS homolog
227	EST00259	R	Notch/Xotch
952	EST01961	R	Notch/Xotch
1395	EST02429	R	Nuclear factor 1-like protein (NF1)
2353	EST01806	R	Prohibitin
1069	EST02087	R	Protein kinase C, zeta
1933	EST01650	R	Protein phosphatase 2A beta subunit

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202	EST00298	R	Protein-tyrosine phosphatase LRP
1478	EST02515	R	Rab5
1408	EST02442	R	Seven in absentia
300	EST00232	R	Transforming protein (dbl)
1147	EST02169	R	Tyrosine kinase
1348	EST02378	R	cAMP-dependent protein kinase inhibitor
1931	EST01041	R	cAMP-regulated phosphoprotein
1413	EST02447	R	cAMP-specific phosphodiesterase
37	EST00038	R	ras p21-like small GTP-binding protein (smg GDS)
102	EST00248	R	rho H12/ ARH12
299	EST00249	R	smg p25A GDP dissociation inhibitor
189	EST00282	R	trkB
1332	EST02362	R	GA binding protein, beta subunit
1277	EST02306	R	Bib protein
43	EST00371	R	Maternal G10 protein
1704	EST01580	R	Myeloid differentiation primary response gene My
346	EST01828	R	Otd homeotic protein
187	EST00152	R	Wilm's tumor-related protein
249	EST00275	R	Zinc Finger Proteins
413	EST01446	R	Zinc Finger Proteins
469	EST01460	R	Zinc Finger Proteins
833	EST01560	R	Zinc Finger Proteins
1230	EST02259	R	Zinc finger proteins
1496	EST02534	R	Zinc finger proteins
2324	EST01352	R	Zinc Finger Proteins
208	EST00250	S	60K filarial antigen
2320	EST01784	S	60K filarial antigen
251	EST00370	S	Actin, other
2146	EST01218	S	Actin, other
248	EST00271	S	Actinin, alpha
891	EST01891	S	Actinin, alpha
1500	EST02538	S	Actinin, alpha
132	EST00110	S	Agrin
1852	EST01625	S	Agrin
1965	EST01664	S	Amyloid A4
2068	EST01694	S	Amyloid A4
2408	EST00244	S	Amyloid A4
1880	EST01634	S	Axonal glycoprotein TAG-1
2004	EST01676	S	Cofilin
650	EST00642	S	Dilute (myosin heavy chain)
2217	EST01738	S	Gelation factor ABP-280
1885	EST01639	S	Histocompatibility antigen modifier 1
77	EST00257	S	Kinesin
SEQ ID	EST#	Group	Putative Identification
78	EST00258	S	Kinesin
2245	EST01748	S	Kinesin
313	EST00276	S	Lysosomal membrane glycoprotein 1 (LAMP-1)
223	EST00368	S	Microtubule-associated protein 1B
824	EST01865	S	Microtubule-associated protein 1B
2032	EST01683	S	Microtubule-associated protein 1B
2017	EST01678	S	Milk fat globule membrane protein
1567	EST02610	S	Neural cell adhesion molecule L1
506	EST01471	S	Neuraxin
2368	EST01389	S	Radial spoke protein 3
951	EST01960	S	Spectrin, beta
2089	EST01699	S	Sperm membrane protein
653	EST01512	S	Tubulin, alpha
311	EST00270	S	Tubulin, beta
594	EST01490	S	Tubulin, beta
757	EST01542	S	Tubulin, beta
1245	EST02274	S	Tubulin, beta
1589	EST02634	S	Tubulin, beta
1468	EST02505	S	Matrin 3

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1371	EST02402	S	Talin
1701	EST00853	S	Unc-104

Group Key: M: Metabolic, R: Regulatory, S: Structural

Table 11: Thirteen-Class Functional Groupings of ESTs

<u>SEQ ID</u>	<u>EST#</u>	<u>Group</u>	<u>Putative Identification</u>
208	EST00250	CS	60K filarial antigen
2320	EST01784	CS	60K filarial antigen
1965	EST01664	CS	Amyloid A4
2068	EST01694	CS	Amyloid A4
2408	EST00244	CS	Amyloid A4
1880	EST01634	CS	Axonal glycoprotein TAG-1
1885	EST01639	CS	Histocompatibility antigen modifier 1
313	EST00276	CS	Lysosomal membrane glycoprotein 1 (LAMP-1)
2017	EST01678	CS	Milk fat globule membrane protein
1567	EST02610	CS	Neural cell adhesion molecule L1
2368	EST01389	CS	Radial spoke protein 3
2089	EST01699	CS	Sperm membrane protein
1277	EST02306	DC	Bib protein
188	EST00256	DC	Enhancer of split
43	EST00371	DC	Maternal G10 protein
1704	EST01580	DC	Myeloid differentiation primary response gene MyD1
227	EST00259	DC	Notch/Xotch
952	EST01961	DC	Notch/Xotch
346	EST01828	DC	Orthodentical homeotic protein
1408	EST02442	DC	Seven in absentia
97	EST00289	EM	Aconitase
310	EST00377	EM	Fo ATPase beta subunit, mitochondrial
485	EST01466	KP	Calmodulin-dependent protein kinase, type II, beta
993	EST02007	KP	Kinase 5 protein
1069	EST02087	KP	Protein kinase C, zeta
1933	EST01650	KP	Protein phosphatase 2A beta subunit
202	EST00298	KP	Protein-tyrosine phosphatase LRP
1348	EST02378	KP	cAMP-dependent protein kinase inhibitor
2302	EST01779	OG	Discs-large tumor suppressor
2353	EST01806	OG	Prohibitin
1478	EST02515	OG	Rab5
300	EST00232	OG	Transforming protein (dbl)
37	EST00038	OG	ras p21-like small GTP-binding protein (smg GDS)
102	EST00248	OG	rho H12/ ARH12
1834	EST01620	OM	AMP deaminase, brain
691	EST00675	OM	Alcohol dehydrogenase
396	EST01443	OM	CDPdiacylglycerol-serine O-phosphatidyltransferase
2192	EST01257	OM	Diacylglycerol kinase, lymphocyte
1441	EST02477	OM	Diamine acetyltransferase
2289	EST01325	OM	Fatty acid synthase
1020	EST02034	OM	Glutaminase
2326	EST01791	OM	Inositol-1,4,5-trisphosphate 3-kinase
1427	EST02463	OM	Long-chain-fatty-acid-CoA ligase
2226	EST01744	OM	NAD(P)+ transhydrogenase (B-specific)
1566	EST02609	OM	Neutrophil oxidase factor
1681	EST01573	OM	Nucleoside diphosphate kinase

<u>SEQ ID</u>	<u>EST#</u>	<u>Group</u>	<u>Putative Identification</u>
2254	EST01751	OM	Phosphatidylinositol-4,5-bisphosphate phosphodiesterase
1654	EST01572	OM	Protochlorophyllide reductase
2073	EST01697	OM	Succinate dehydrogenase flavoprotein
2138	EST01715	OM	Succinate dehydrogenase flavoprotein
1771	EST01601	OM	Thiosulfate sulfurtransferase (rhodanese)
2173	EST01724	PI	Lon protease
2297	EST01775	PI	Prohormone cleavage enzyme
9	EST00376	PI	Prolyl endopeptidase
1726	EST01588	PI	XPR2 alkaline extracellular protease
1147	EST02169	PP	Tyrosine kinase
2282	EST01764	RT	Lamin B receptor
189	EST00282	RT	trkB
251	EST00370	SC	Actin, other
2146	EST01218	SC	Actin, other
248	EST00271	SC	Actinin, alpha
891	EST01891	SC	Actinin, alpha
1500	EST02538	SC	Actinin, alpha
132	EST00110	SC	Agrin
1852	EST01625	SC	Agrin
2004	EST01676	SC	Cofilin
650	EST00642	SC	Dilute (myosin heavy chain)
2217	EST01738	SC	Gelation factor ABP-280
77	EST00257	SC	Kinesin
78	EST00258	SC	Kinesin
2245	EST01748	SC	Kinesin
1468	EST02505	SC	Matrin 3
223	EST00368	SC	Microtubule-associated protein 1B
824	EST01865	SC	Microtubule-associated protein 1B
2032	EST01683	SC	Microtubule-associated protein 1B
506	EST01471	SC	Neuraxin
951	EST01960	SC	Spectrin, beta
1371	EST02402	SC	Talin
653	EST01512	SC	Tubulin, alpha
311	EST00270	SC	Tubulin, beta
594	EST01490	SC	Tubulin, beta
757	EST01542	SC	Tubulin, beta
1245	EST02274	SC	Tubulin, beta
1589	EST02634	SC	Tubulin, beta
1701	EST00853	SC	Unc-104
969	EST01982	ST	ADP-ribosylation factor 1
1126	EST02146	ST	Calbindin D28
1910	EST01645	ST	Calmodulin
161	EST00247	ST	MARCKS (myristoylated alanine-rich protein kinase)
769	EST00734	ST	MARCKS homolog
1386	EST02418	ST	MARCKS homolog
1931	EST01041	ST	cAMP-regulated phosphoprotein
1413	EST02447	ST	cAMP-specific phosphodiesterase
299	EST00249	ST	smg p25A GDP dissociation inhibitor



<u>SEQ ID</u>	<u>EST#</u>	<u>Group</u>	<u>Putative Identification</u>
2092	EST01700	TP	Anion exchanger homolog AE3
1956	EST01663	TP	Ca <sup>2+</sup> -transporting ATPase 2
1039	EST02055	TP	Calcium channel
1667	EST00825	TP	Gamma-aminobutyric acid transporter
1412	EST02446	TP	Glutamate-aspartate carrier protein
913	EST01913	TT	Clathrin coat assembly protein AP50 homolog
1035	EST02051	TT	J1 protein
93	EST00287	TT	Processing enhancing protein
38	EST00374	TT	RNA polymerase II 6th subunit (RPO26)
1715	EST01583	TT	Ribosomal protein L18a
1856	EST01627	TT	Ribosomal protein L1a
1974	EST01667	TT	Ribosomal protein L3
301	EST00300	TT	Ribosomal protein L30
22	EST00301	TT	Ribosomal protein S10
2402	EST01826	TT	Ribosomal protein S10
463	EST01459	TT	Ribosomal protein YL10
2121	EST01711	TT	Valine-tRNA ligase
1332	EST02362	TX	GA binding protein, beta subunit
1229	EST02258	TX	KUP protein
1395	EST02429	TX	Nuclear factor 1-like protein (NF1)
187	EST00152	TX	Wilm's tumor-related protein
249	EST00275	TX	Zinc Finger Proteins
413	EST01446	TX	Zinc Finger Proteins
469	EST01460	TX	Zinc Finger Proteins
833	EST01560	TX	Zinc Finger Proteins
1230	EST02259	TX	Zinc finger proteins
1496	EST02534	TX	Zinc finger proteins
2324	EST01352	TX	Zinc Finger Proteins

Group Key: CS: Cell Surface, DC: Developmental Control, EM: Energy Metabolism, KP: Kinases and Phosphatases, OG: Oncogenes, OM: Other Metabolism, PI, Peptidases and Peptidase Inhibitors, RT: Receptors, SC: Structural and Cytoskeletal, ST: Signal Transduction, TP: Transporters, TT: Transcription, Translation, and Subcellular Localization, TX: Transcription Factors.

## EXAMPLE 11

cDNA Libraries Generated From Specific Genomic DNA  
by Exon Expression & Amplification

5 Exon amplification was used to express potential exons from genomic DNA in a recombinant vector that contains some of the signals necessary for splicing. If an exon is present in the proper orientation in the vector, that exon will be  
10 spliced in a mammalian cell and will become part of the mRNA of that cell. The exon splice-product can be purified from other mRNA in the cell by conversion of the mRNA to cDNA and selective amplification of the recombinant splice-product cDNAs. Cosmid DNA from human chromosome 19q13.3 was digested  
15 with BamHI or BamHI/BglIII restriction enzymes. The fragments generated were collected and size specifically cloned into an expression vector (Buckler, et al. Proc. Nat'l. Acad. Sci. USA, 88:4005-4009 (1991)). After transfection by electroporation of these constructs into COS cells, RNA  
20 transcripts were generated using the SV40 early promoter and a polyadenylation signal derived from SV40 both present in the expression vector. When a fragment of genomic DNA contains an entire exon with flanking intron sequence in the sense orientation, the exon should be retained in the mature  
25 poly(A)+ cytoplasmic RNA. Therefore, the mRNA was used as template for cDNA synthesis using reverse transcriptase and vector-priming. Subsequently, the cDNAs were amplified by vector-priming using PCR. A fraction of this first PCR product was reamplified using internal vector-primers  
30 containing terminal cloning sites. These products were end-repaired with T4 DNA polymerase, digested with the appropriate restriction enzymes, gel purified and cloned into pBluescript vectors. The constructs were transfected into  
35 XL1-Blue competent cells and plated on LB/X-gal/IPTG/ampicillin plates. White colonies were selected and expanded to prepare DNA templates as described in Example 2.

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When multiple cosmids or YAC clones were used as the source DNA, a pool of specific expressed exons was obtained as a cDNA library. The EST/cDNAs sequenced from this specific library are disclosed herein as SEQ ID NOS: 2412-2417.

5

## EXAMPLE 12

### PCR Amplification from Predicted Exons

10 Computational analyses can be applied to genomic DNA sequences to predict protein coding regions. The coding region prediction program CRM (E. Uberbacher and R. Mural, Proc. Natl. Acad. Sci. USA 88:11261-5 (1991)) finds open reading frames and classifies them according to their probability of being coding regions. These regions are subsequently examined using the GM program (C. Fields and C. Soderlund, Comp. Applic. Biosci. 6: 263, 1990), which predicts intron-exon structure. PCR primers are then designed to amplify the predicted exons and used to test human cDNA libraries (for example, fetal brain or placental libraries) for the presence of these putative exons using a PCR assay.

20 This strategy has been successfully applied in two large scale genomic sequencing projects, the Huntington's locus of human chromosome 4p16.3 (McCombie, et al., submitted) and human chromosome locus 19q13.3 (Martin-Gallardo, et al., submitted). Sequences from eleven predicted exons from chromosome 4 were present in tested cDNA libraries, indicating that this region has at least two and probably three expressed genes. In one case, the method resulted in an amplification product which spanned two predicted exons. (SEQ ID NO: 2411.) When sequenced, this PCR product indicated the presence of the two exons from which the primers were initially chosen, as well as an intervening exon which was also predicted by the CRM program, but not the intervening genomic sequences. In a similar fashion, the presence of the two predicted genes in the chromosome 19

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sequence was confirmed by sequencing PCR products. SEQ ID NO 2410, includes a partial exon of one of these genes.

### EXAMPLE 13.

#### 5                    Complete Sequence of EST Clone Inserts

There are a number of methods known to those with skill in the art of molecular biology, to obtain sequence information from the cDNAs corresponding to the EST sequences. Procedures for these methods are provided in 10 Basic Methods in Molecular Biology (David et al. *supra*). One way to acquire more information about the cDNA from which an EST was derived is to sequence the remainder of the cDNA clone. The complete sequence of the inserts of four EST 15 clones (representing SEQ ID NOs 188, 189, 223, and 227) was determined using Exonuclease III deletions. Briefly, EST clones were digested with the restriction enzymes SalI and KpnI or PstI and BamHI (for deletions from the Forward primer and Reverse primer ends of the insert, respectively). The 20 KpnI and PstI enzymes, leave 3' sticky ends following digestion, which Exonuclease III is unable to bind. This results in unidirectional deletions into the cDNA insert leaving the vector sequence undisturbed. After addition of Exonuclease III to the Forward and Reverse deletion 25 reactions, aliquots of the reaction were removed at defined time intervals and the reaction was stopped to prevent further deletion. S1 nuclease and Klenow DNA polymerase were added to create blunt ended fragments suitable for ligation. Samples for each time point was purified by 30 electrophoresis through an agarose gel and religated. Two to four representative clones from each time point in each direction were sequenced to give between 200 and 400 base pairs of sequence data. Careful selection of deletion conditions and time points allow a deletion series of 35 approximately 100-200 base pairs difference in length at each consecutive time point. Sequence fragments were reassembled into a redundant contiguous sequence using the INHERIT

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software from Applied Biosystems, Inc. (Foster City, CA). In this way, the complete insert from these four cDNA clones was sequenced on both strands to an average redundancy between three and four (each base was sequenced between three and four times, on average). Those complete insert sequences are disclosed herein as SEQ ID 2418, 2419, 2420, and 2421, corresponding to original ESTs with SEQ ID 223, 189, 227, and 188, respectively.

#### EXAMPLE 14

##### Determining Reading Frame, Orientation, Coding Regions: ESTs and Complete cDNA Sequences

Once the complete cDNA sequence has been determined in accordance with Example 13, the reading frame, orientation, and coding regions are determined by computer techniques. (The complete coding region is considered to be the largest open reading frame from a methionine to a stop codon.)

Specifically, the CRM program on the GRAIL server is used as explained in Example 9 to determine probable coding regions. This information is supplemented by location of start and stop codons. Where possible, the results of the CRM analysis are validated by comparison of the cDNA sequence to known sequences using database matching, in accordance with Examples 3 and 4. If a match of 50% (or even less) is found in any particular reading frame and orientation, this serves to verify corresponding CRM results. Alternatively, database matches can be used to determine reading frame and orientation without use of the CRM program. Of course, if the cDNA is derived from a directional library, the probable orientation is already known.

#### EXAMPLE 15

##### Preparation of PCR Primers and Amplification of DNA

The EST sequences and the corresponding cDNA sequences and genomic sequences may be used, in accordance with the

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present invention, to prepare PCR primers for a variety of applications. The PCR primers are preferably at least 15 bases, and more preferably at least 18 bases in length. The procedure of Example 5 is repeated using the desired EST, or  
5 using the corresponding cDNA or genomic DNA sequence from Example 13. It is preferred that the primer pairs have approximately the same G/C ratio, so that melting temperatures are approximately the same. When screening cDNA, introns are of no concern; however, when screening  
10 genomic DNA, primers should be selected to avoid reading across introns, which usually are too large to amplify. The PCR primers and amplified DNA of this Example find use in the Examples that follow.

15

**EXAMPLE 16****Forensic Matching by DNA Sequencing**

20

In one exemplary method, DNA samples are isolated from forensic specimens of, for example, hair, semen, blood or skin cells by conventional methods. A panel of PCR primers derived from a number of the sequences of Example 1, 2, 11, 12 and/or 13 is then utilized in accordance with Example 12  
25 to obtain DNA of approximately 100-200 bases in length from the forensic specimen. Corresponding sequences are obtained from a suspect. Each of these identification DNAs is then sequenced, and a simple database comparison determines the differences, if any, between the sequences from the suspect  
30 and those from the sample. Statistically significant differences between the suspect's DNA sequences and those from the sample conclusively prove a lack of identity. This lack of identity can be proven, for example, with only one sequence. Identity, on the other hand, should be  
35 demonstrated with a large number of sequences, all matching. Preferably, a minimum of 50 statistically identical sequences

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of 100 bases in length are used to prove identity between the suspect and the sample.

#### EXAMPLE 17

5

##### Positive Identification by DNA Sequencing

10 The technique outlined in the previous example may also be used on a larger scale to provide a unique fingerprint-type identification of any individual. In this technique, primers are prepared from a large number of sequences from Examples 1, 2, 11, 12 and/or 13. Preferably, 20 to 50 different primers are used. These primers are used to obtain a corresponding number of PCR-generated DNA segments from the individual in question in accordance with Example 15. Each of these DNA segments is sequenced, using the methods set forth in Example 1. The database of sequences generated through this procedure uniquely identifies the individual from whom the sequences were obtained. The same panel of primers may then be used at any later time to absolutely correlate tissue or other biological specimen with that individual.

20

#### EXAMPLE 18

25

##### Southern Blot Forensic Identification

30 The procedure of Example 17 is repeated to obtain a panel of from 10 to 2000 amplified sequences from an individual and a specimen. This PCR-generated DNA is then digested with one or a combination of, preferably, four base specific restriction enzymes. Such enzymes are commercially available and known to those of skill in the art. After digestion, the resultant gene fragments are size separated in multiple duplicate wells on an agarose gel and transferred to nitrocellulose using Southern blotting techniques well known to those with skill in the art. For a review of Southern

35

blotting see Davis et al. (Basic Methods in Molecular Biology, 1986, Elsevier Press. pp 62-65).

A panel of ESTs or complete cDNA sequences from Examples 1, 2, and/or 13, or fragments thereof of at least 15 bases, are radioactively or colorimetrically labeled using end-labeled oligonucleotides derived from the ESTs, nick translated sequences or the like using methods known in the art and hybridized to the Southern blot using techniques known in the art (Davis et al., supra). Preferably, at least 5 to 10 of these labeled probes are used, and more preferably at least about 20 or 30 are used to provide a unique pattern. The resultant bands appearing from the hybridization of a large sample of ESTs will be a unique identifier. Since the restriction enzyme cleavage will be different for every individual, the band pattern on the Southern blot will also be unique. Increasing the number of EST probes will provide a statistically higher level of confidence in the identification since there will be an increased number of sets of bands used for identification.

#### EXAMPLE 19

##### Dot Blot Identification Procedure

Another technique for identifying individuals using the sequences disclosed herein utilizes a dot blot hybridization technique.

Genomic DNA is isolated from nuclei of subject to be identified. Oligonucleotide probes of approximately 30 bp in length were synthesized that correspond to sequences from the ESTs. The probes are used to hybridize to the genomic DNA through conditions known to those in the art. The oligonucleotides are end labelled with  $P^{32}$  using polynucleotide kinase (Pharmacia). Dot Blots are created by spotting about 50 ng cDNA of at least 10, preferably at least 50 sequences corresponding to a variety of the Sequence ID



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NOs provided in Table 7 onto nitrocellulose or the like using a vacuum dot blot manifold (BioRad, Richmond California). The nitrocellulose filter containing the EST clone sequences is baked or UV linked to the filter, prehybridized and hybridized with labeled probe using techniques known in the art (Davis et al. supra). The  $^{32}\text{P}$  labeled DNA fragments are sequentially hybridized with successively stringent conditions to detect minimal differences between the 30 bp sequence and the DNA. Tetramethylammonium chloride is useful for identifying clones containing small numbers of nucleotide mismatches (Wood et al., Proc. Natl. Acad. Sci. USA 82(6):1585-1588 (1985) which is hereby incorporated by reference. A unique pattern of dots distinguishes one individual from another individuals.

#### EXAMPLE 20

##### Alternative "Fingerprint" Identification Technique

EST sequences and the corresponding complete cDNA sequences can be used to create a unique fingerprint for an individual. Thus pools of EST sequences can be used in forensics, paternity suits or the like to differentiate one individual from another.

Entire EST sequences can be used; similarly oligonucleotides can be prepared from EST sequences. In this example, 20-mer oligonucleotides are prepared from 200 EST sequences using commercially available oligonucleotide services such as Oligos Etc., Wilsonville, OR. Patient cell samples are processed for DNA using techniques well known to those with skill in the art. The nucleic acid is digested with restriction enzymes EcoRI and XbaI. Following digestion, samples are applied to wells for electrophoresis. The procedure, as known in the art, may be modified to accommodate polyacrylamide electrophoresis, however in this example, samples containing 5 ug of DNA are loaded into wells

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and separated on 0.8% agarose gels. The gels are transferred using Southern blotting techniques onto nitrocellulose.

10 ng of each of the oligos are pooled and end-labeled with  $P^{32}$ . The nitrocellulose is prehybridized with blocking solution and hybridized with the labeled probes. Following hybridization and washing, the nitrocellulose filter is exposed to X-Omat AR X-ray film. The resulting hybridization pattern will be unique for each individual.

It is additionally contemplated within this example that the representative number of EST sequences can be varied for additional accuracy or clarity.

#### EXAMPLE 21

##### Identification of genes associated with hereditary diseases

This example illustrates an approach useful for the association of EST sequences with particular phenotypic characteristics. In this example, a particular EST is used as a test probe to associate that EST with a particular phenotypic characteristic.

An EST clone corresponding to EST01643, (SEQ ID NO 1894) maps to a gene rich region of chromosome 6. EST clone HHCMH89, from which EST01643 was derived, was mapped to chromosome 6p21 by Dr. Julie Korenberg of UCLA/Cedar Sinai Hospital using FISH. A search of Mendelian Inheritance in Man (supra) revealed 6p21 to be a very gene rich region containing several known genes and several diseases for which genes have not been identified. The cDNA encoded by EST clone HHCMH89 thus becomes an immediate candidate for each of these genetic diseases.

Cells from patients with these diseases are isolated and expanded in culture. PCR primers from the EST sequences are used to screen genomic DNA and RNA or cDNA from the patients. ESTs that are not amplified in the patients can be positively associated with a particular disease by further analysis.

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## EXAMPLE 22

Identification of a gene associated with  
Angelman's disease

5

Angelman's disease (AD) is characterized by deletions on the long arm of chromosome 15 (15q11q13) (Williams et al. Am. J. Med. Genet. 32:339-345 (1989) hereby incorporated by reference). The symptoms of the disease include developmental delay, seizures, inappropriate laughter and ataxic movements. These symptoms suggest that the disorder is a neurologic deficiency. This prophetic example illustrates how ESTs, preferably obtained from a cDNA library from human brain, may be used in identifying the defective gene or genes associated with Angelman's Disease. (The example is based on analogous work with genomic DNA, rather than cDNA and ESTs, in identifying the genetic defect associated with Angelman's Disease.) This example also illustrates how EST sequences may generally be used for identifying gene sequences associated with an inherited disease that is mapped to a chromosome location.

ESTs are screened using techniques described in Example 5 and Example 7 to identify those ESTs that localize to the long arm of chromosome 15 and preferably localize to chromosome 15 bands 15q11q13 from normal patients. ESTs that bind to the long arm of chromosome 15 are hybridized to chromosome 15 from AD patients. These studies are preferably performed using either fluorescence in situ hybridization or using somatic cell hybrids that contain fragments from the long arm of chromosome 15 from AD patients. Those chromosome 15-specific ESTs that do not map to chromosome 15 from AD patients are useful as markers for Angelman's Disease and can be incorporated into diagnostics for genetic screening. These ESTs are associated with chromosome deletions present in Angelman's disease. Identification of the gene associated with these AD negative ESTs and an analysis of the polypeptides encoded by the genes

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from normal patients is essential for providing gene or other therapies for AD patients.

Genetic diseases are not always accompanied by gene deletions. Therefore, it is also important to use the ESTs that bind to bands 15q11q13 from AD patients as tools to identify the polymorphisms present within the disease population. Restriction fragment length polymorphism (RFLP) analysis can be performed on patient cells from AD disease or from somatic cell hybrids created using the long arm of chromosome 15. For a review of RFLP techniques see Donis-Keller et al. (Cell 51:319-337 (1987) hereby incorporated by reference). DNA is isolated from the somatic cell lines or from cells from AD patients. The DNA is digested with one or more restriction enzymes according to techniques of Donis-Keller et al. The resulting fragments are separated by gel electrophoresis, denatured, transferred to nitrocellulose and hybridized with the selected radio-labeled ESTs that localize to the region of interest. The autoradiographic pattern is compared both to a number of AD patients and to normal patients. Common patterns of EST hybridization in AD patients that are not present in normal patients indicates that the genes associated with these ESTs are candidate genes affected by AD.

cDNA libraries are prepared from the somatic cell hybrids from AD patients. Libraries are prepared using Lambda Zap II Library Kits (Stratagene, La Jolla, California) or other commercially available library kits. The ESTs of interest are used as probes to identify those bacterial colonies carrying genes corresponding to the EST probes. Positive clones are sequenced and the sequences are compared to homologous gene sequences derived from normal patients.

Alterations, including deletions and substitutions, within gene sequences, associated with bands 15q11q13, are thus positively identified and associated with AD disease. Wagstaff et al. were able to identify deletions and substitutions in sequences encoding the GABA<sub>A</sub> receptor

protein subunit from patients with Angelman's disease (Am. J. Hum. Genet. 49:330-337, (1991)). It is likely that other genes will additionally be associated with the disease.

5

**EXAMPLE 23****Preparation and Use of Antisense Oligonucleotides**

10 Antisense RNA molecules are known to be useful for regulating translation within the cell. Antisense RNA molecules can be produced from EST sequences or from the corresponding gene sequences. These antisense molecules can be used as diagnostic probes to determine whether or not a particular gene is expressed in a cell. Similarly, the  
15 antisense molecules can be used as a therapeutic to regulate gene expression once the EST is associated with a particular disease (see Example 22).

The antisense molecules are obtained from a nucleotide sequence by reversing the orientation of the coding region with regard to the promoter. Thus, the antisense RNA is  
20 complementary to the corresponding mRNA. For a review of antisense design see Green et al., Ann. Rev. Biochem. 55:569-597 (1986), which is hereby incorporated by reference. The antisense sequences can contain modified sugar phosphate  
25 backbones to increase stability and make them less sensitive to RNase activity. Examples of the modifications are described by Rossi et al., Pharmacol. Ther. 50(2):245-254, (1991).

30 Antisense molecules are introduced into cells that express the gene corresponding to the EST of interest in culture. In a preferred application of this invention, the polypeptide encoded by the gene is first identified, so that the effectiveness of antisense inhibition on translation can be monitored using techniques that include but are not  
35 limited to antibody-mediated tests such as RIAs and ELISA, functional assays, or radiolabelling. The antisense molecule is introduced into the cells by diffusion or by transfection

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procedures known in the art. The molecules are introduced onto cell samples at a number of different concentrations preferably between  $1 \times 10^{-10} \text{M}$  to  $1 \times 10^{-4} \text{M}$ . Once the minimum concentration that can adequately control translation is identified, the optimized dose is translated into a dosage suitable for use in vivo. For example, an inhibiting concentration in culture of  $1 \times 10^{-7}$  translates into a dose of approximately 0.6 mg/kg bodyweight. Levels of oligonucleotide approaching 100 mg/kg bodyweight or higher may be possible after testing the toxicity of the oligonucleotide in laboratory animals.

The antisense can be introduced into the body as a bare or naked oligonucleotide, oligonucleotide encapsulated in lipid, oligonucleotide sequence encapsidated by viral protein, or as oligonucleotide contained in an expression vector such as those described in Example 25. The antisense oligonucleotide is preferably introduced into the vertebrate by injection. It is additionally contemplated that cells from the vertebrate are removed, treated with the antisense oligonucleotide, and reintroduced into the vertebrate. It is further contemplated that the antisense oligonucleotide sequence is incorporated into a ribozyme sequence to enable the antisense to bind and cleave its target. For technical applications of ribozyme and antisense oligonucleotides see Rossi et al.

#### EXAMPLE 24

##### Preparation and use of Triple Helix Probes

Triple helix oligonucleotides are used to inhibit transcription from a genome. They are particularly useful for studying alterations in cell activity as it is associated with a particular gene. The EST sequences or complete sequences of the present invention or, more preferably, a portion of those sequences, can be used to inhibit gene

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expression in individuals having diseases associated with a particular gene. Similarly, a portion of the EST or corresponding gene sequence can be used to study the effect of inhibiting transcription of a particular gene within a cell. Traditionally, homopurine sequences were considered the most useful. However, homopyrimidine sequences can also inhibit gene expression. Thus, both types of sequences from either the EST or from the gene corresponding to the EST are contemplated within the scope of this invention.

Homopyrimidine oligonucleotides bind to the major groove at homopurine:homopyrimidine sequences. As an example, 10-mer to 20-mer homopyrimidine sequences from the ESTs can be used to inhibit expression from homopurine sequences. SEQ ID NOS such as 282, 888, 719, 670, 994, 240, 873 and 761 contain homopyrimidine 15-mers. Moreover the natural (beta) anomers of the oligonucleotide units can be replaced with alpha anomers to render the oligonucleotide more resistant to nucleases. Further, an intercalating agent such as ethidium bromide, or the like, can be attached to the 3' end of the alpha oligonucleotide to stabilize the triple helix. For information on the generation of oligonucleotides suitable for triple helix formation see Griffin et al. (Science 245:967-971 (1989), which is hereby incorporated by this reference).

The oligonucleotides may be prepared on an oligonucleotide synthesizer or they may be purchased commercially from a company specializing in custom oligonucleotide synthesis. The sequences are introduced into cells in culture using techniques known in the art that include but are not limited to calcium phosphate precipitation, DEAE-Dextran, electroporation, liposome-mediated transfection or native uptake. Treated cells are monitored for altered cell function. These cell functions are predicted based upon the homologies of the gene corresponding to the EST from which the oligonucleotide was derived, with known genes sequences that have been associated

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with a particular function. The cell functions can also be predicted based on the presence of abnormal physiologies within cells derived from individuals with a particular inherited disease, particularly when the EST is associated with the disease using techniques described in Example 22.

#### EXAMPLE 25

##### Gene expression from DNA Sequences Corresponding to ESTs

10

A gene sequence of the present invention coding for all or part of a human gene product is introduced into an expression vector using conventional technology. (Techniques to transfer cloned sequences into expression vectors that direct protein translation in mammalian, yeast, insect or bacterial expression systems are well known in the art.) Commercially available vectors and expression systems are available from a variety of suppliers including Stratagene (La Jolla, California), Promega (Madison, Wisconsin), and Invitrogen (San Diego, California). If desired, to enhance expression and facilitate proper protein folding, the codon context and codon pairing of the sequence may be optimized for the particular expression organism, as explained by Hatfield, et al., U.S. Patent No. 5,082,767, incorporated herein by this reference.

25

The following is provided as one exemplary method to generate polypeptide from cloned cDNA sequences. The cDNA from the EST of interest is sequenced to identify the methionine initiation codon for the gene and the poly A sequence. If the cDNA lacks a poly A sequence, this sequence can be added to the construct by, for example, splicing out the Poly A sequence from pSG5 (Stratagene) using BglI and SalI restriction endonuclease enzymes and incorporating it into the mammalian expression vector pXT1 (Stratagene). pXT1 contains the LTRs and a portion of the gag gene from Moloney Murine Leukemia Virus. The position of the LTRs in the construct allow efficient stable transfection. The vector

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includes the Herpes Simplex Thymidine Kinase promoter and the selectable neomycin gene. The cDNA is obtained by PCR from the bacterial vector using oligonucleotide primers complementary to the cDNA and containing restriction endonuclease sequences for Pst I incorporated into the 5' primer and BglII at the 5' end of the corresponding cDNA 3' primer, taking care to ensure that the cDNA is positioned inframe with the poly A sequence. The purified fragment obtained from the resulting PCR reaction is digested with PstI, blunt ended with an exonuclease, digested with Bgl II, purified and ligated to pXT1, now containing a poly A sequence and digested BglII.

The ligated product is transfected into mouse NIH 3T3 cells using Lipofectin (Life Technologies, Inc., Grand Island, New York) under conditions outlined in the product specification. Positive transfectants are selected after growing the transfected cells in 600ug/ml G418 (Sigma, St. Louis, Missouri). The protein is preferably released into the supernatant. However if the protein has membrane binding domains, the protein may additionally be retained within the cell or expression may be restricted to the cell surface.

Since it may be necessary to purify and locate the transfected product, synthetic 15-mer peptides synthesized from the predicted cDNA sequence are injected into mice to generate antibody to the polypeptide encoded by the cDNA.

If antibody production is not possible, the cDNA sequence is additionally incorporated into eukaryotic expression vectors and expressed as a chimeric with, for example,  $\beta$ -globin. Antibody to  $\beta$ -globin is used to purify the chimeric. Corresponding protease cleavage sites engineered between the  $\beta$ -globin gene and the cDNA are then used to separate the two polypeptide fragments from one another after translation. One useful expression vector for generating  $\beta$ -globin chimerics is pSG5 (Stratagene). This vector encodes rabbit  $\beta$ -globin. Intron II of the rabbit  $\beta$ -globin gene facilitates splicing of the expressed transcript,

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and the polyadenylation signal incorporated into the construct increases the level of expression. These techniques as described are well known to those skilled in the art of molecular biology. Standard methods are published in methods texts such as Davis et al. and many of the methods are available from the technical assistance representatives from Stratagene, Life Technologies, Inc., or Promega. Polypeptide may additionally be produced from either construct using in vitro translation systems such as In vitro Express™ Translation Kit (Stratagene).

#### Example 26

##### Production of an Antibody to a Human Protein

Substantially pure protein or polypeptide is isolated from the transfected or transformed cells as described in Example 25. Concentration of protein in the final preparation is adjusted, for example, by concentration on an Amicon filter device, to the level of a few micrograms/ml. Monoclonal or polyclonal antibody to the protein can then be prepared as follows:

##### A. Monoclonal Antibody Production by Hybridoma Fusion

Monoclonal antibody to epitopes of any of the peptides identified and isolated as described can be prepared from murine hybridomas according to the classical method of Kohler, G. and Milstein, C., Nature 256:495 (1975) or derivative methods thereof. Briefly, a mouse is repetitively inoculated with a few micrograms of the selected protein over a period of a few weeks. The mouse is then sacrificed, and the antibody producing cells of the spleen isolated. The spleen cells are fused by means of polyethylene glycol with mouse myeloma cells, and the excess unfused cells destroyed by growth of the system on selective media comprising aminopterin (HAT media). The successfully fused cells are diluted and aliquots of the dilution placed in wells of a

microtiter plate where growth of the culture is continued. Antibody-producing clones are identified by detection of antibody in the supernatant fluid of the wells by immunoassay procedures, such as Elisa, as originally described by Engvall, E., *Meth. Enzymol.* 70:419 (1980), and derivative methods thereof. Selected positive clones can be expanded and their monoclonal antibody product harvested for use. Detailed procedures for monoclonal antibody production are described in Davis, L. et al. *Basic Methods in Molecular Biology* Elsevier, New York. Section 21-2.

#### B. Polyclonal Antibody Production by Immunization

Polyclonal antiserum containing antibodies to heterogenous epitopes of a single protein can be prepared by immunizing suitable animals with the expressed protein described above, which can be unmodified or modified to enhance immunogenicity. Effective polyclonal antibody production is affected by many factors related both to the antigen and the host species. For example, small molecules tend to be less immunogenic than other and may require the use of carriers and adjuvant. Also, host animals vary in response to site of inoculations and dose, with both inadequate or excessive doses of antigen resulting in low titer antisera. Small doses (ng level) of antigen administered at multiple intradermal sites appears to be most reliable. An effective immunization protocol for rabbits can be found in Vaitukaitis, J. et al. *J. Clin. Endocrinol. Metab.* 33:988-991 (1971).

Booster injections can be given at regular intervals, and antiserum harvested when antibody titer thereof, as determined semi-quantitatively, for example, by double immunodiffusion in agar against known concentrations of the antigen, begins to fall. See, for example, Ouchterlony, O. et al., Chap. 19 in: *Handbook of Experimental Immunology* D. Wier (ed) Blackwell (1973). Plateau concentration of antibody is usually in the range of 0.1 to 0.2 mg/ml of serum (about 12  $\mu$ M). Affinity of the antisera for the antigen is

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determined by preparing competitive binding curves, as described, for example, by Fisher, D., Chap. 42 in: **Manual of Clinical Immunology**, 2d Ed. (Rose and Friedman, eds.) Amer. Soc. For Microbiol., Washington, D.C. (1980).

5       Antibody preparations prepared according to either protocol are useful in quantitative immunoassays which determine concentrations of antigen-bearing substances in biological samples; they are also used semi-quantitatively or qualitatively to identify the presence of antigen in a  
10       biological sample.

#### EXAMPLE 27

##### Identification of Tissue Types or Cell Species by Means of Labeled Tissue Specific Antibodies

15       Identification of specific tissues is accomplished by the visualization of tissue specific antigens by means of antibody preparations according to Example 26 which are conjugated, directly or indirectly to a detectable marker.  
20       Selected labeled antibody species bind to their specific antigen binding partner in tissue sections, cell suspensions, or in extracts of soluble proteins from a tissue sample to provide a pattern for qualitative or semi-qualitative interpretation.

25       Antisera for these procedures must have a potency exceeding that of the native preparation, and for that reason, antibodies are concentrated to a mg/ml level by isolation of the gamma globulin fraction, for example, by ion-exchange chromatography or by ammonium sulfate  
30       fractionation. Also, to provide the most specific antisera, unwanted antibodies, for example to common proteins, must be removed from the gamma globulin fraction, for example by means of insoluble immunoabsorbents, before the antibodies are labeled with the marker. Either monoclonal or  
35       heterologous antisera is suitable for either procedure.

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**A. Immunohistochemical Techniques**

Purified, high-titer antibodies, prepared as described above, are conjugated to a detectable marker, as described, for example, by Fudenberg, H., Chap. 26 in: *Basic & Clinical Immunology*, 3rd Ed. Lange, Los Altos, California (1980) or Rose, N. et al., Chap. 12 in: *Methods in Immunodiagnosis*, 2d Ed. John Wiley & Sons, New York (1980).

A fluorescent marker, either fluorescein or rhodamine, is preferred, but antibodies can also be labeled with an enzyme that supports a color producing reaction with a substrate, such as horseradish peroxidase. Markers can be added to tissue-bound antibody in a second step, as described below. Alternatively, the specific antitissue antibodies can be labeled with ferritin or other electron dense particles, and localization of the ferritin coupled antigen-antibody complexes achieved by means of an electron microscope. In yet another approach, the antibodies are radiolabeled, with, for example  $^{125}\text{I}$ , and detected by overlaying the antibody treated preparation with photographic emulsion.

Preparations to carry out the procedures can comprise monoclonal or polyclonal antibodies to a single gene copy or protein, identified as specific to a tissue type, for example, brain tissue, or antibody preparations to several antigenically distinct tissue specific antigens can be used in panels, independently or in mixtures, as required.

Tissue sections and cell suspensions are prepared for immunohistochemical examination according to common histological techniques. Multiple cryostat sections (about 4  $\mu\text{m}$ , unfixed) of the unknown tissue and known control, are mounted and each slide covered with different dilutions of the antibody preparation. Sections of known and unknown tissues should also be treated with preparations to provide a positive control, a negative control, for example, pre-immune sera, and a control for non-specific staining, for example, buffer.

Treated sections are incubated in a humid chamber for 30 min at room temperature, rinsed, then washed in buffer for 30-45 min. Excess fluid is blotted away, and the marker developed.

5        If the tissue specific antibody was not labeled in the first incubation, it can be labeled at this time in a second antibody-antibody reaction, for example, by adding fluorescein- or enzyme-conjugated antibody against the immunoglobulin class of the antiserum-producing species, for  
10        example, fluorescein labeled antibody to mouse IgG. Such labeled sera are commercially available.

      The antigen found in the tissues by the above procedure can be quantified by measuring the intensity of color or fluorescence on the tissue section, and calibrating that  
15        signal using appropriate standards.

#### **B. Identification of Tissue Specific Soluble Proteins**

      The visualization of tissue specific proteins and identification of unknown tissues from that procedure is carried out using the labeled antibody reagents and detection  
20        strategy as described for immunohistochemistry; however the sample is prepared according to an electrophoretic technique to distribute the proteins extracted from the tissue in an orderly array on the basis of molecular weight for detection.

      A tissue sample is homogenized using a Virtis apparatus; cell suspensions are disrupted by Dounce homogenization or osmotic lysis, using detergents in either case as required to  
25        disrupt cell membranes, as is the practice in the art. Insoluble cell components such as nuclei, microsomes, and membrane fragments are removed by ultracentrifugation, and  
30        the soluble protein-containing fraction concentrated if necessary and reserved for analysis.

      A sample of the soluble protein solution is resolved into individual protein species by conventional SDS polyacrylamide electrophoresis as described, for example, by  
35        Davis, L. et al., Section 19-2 in: Basic Methods in Molecular Biology (P. Leder, ed), Elsevier, New York (1986), using a

range of amounts of polyacrylamide in a set of gels to resolve the entire molecular weight range of proteins to be detected in the sample. A size marker is run in parallel for purposes of estimating molecular weights of the constituent proteins. Sample size for analysis is a convenient volume of from 5-50  $\mu$ l, and containing from about 1 to 100  $\mu$ g protein. An aliquot of each of the resolved proteins is transferred by blotting to a nitrocellulose filter paper, a process that maintains the pattern of resolution. Multiple copies are prepared. The procedure, known as Western Blot Analysis, is well described in Davis, L. et al., (above) Section 19-3. One set of nitrocellulose blots is stained with Coomassie Blue dye to visualize the entire set of proteins for comparison with the antibody bound proteins. The remaining nitrocellulose filters are then incubated with a solution of one or more specific antisera to tissue specific proteins prepared as described in Example 26. In this procedure, as in procedure A above, appropriate positive and negative sample and reagent controls are run.

In either procedure A or B, a detectable label can be attached to the primary tissue antigen-primary antibody complex according to various strategies and permutations thereof. In a straightforward approach, the primary specific antibody can be labeled; alternatively, the unlabeled complex can be bound by a labeled secondary anti-IgG antibody. In other approaches, either the primary or secondary antibody is conjugated to a biotin molecule, which can, in a subsequent step, bind an avidin conjugated marker. According to yet another strategy, enzyme labeled or radioactive protein A, which has the property of binding to any IgG, is bound in a final step to either the primary or secondary antibody.

The visualization of tissue specific antigen binding at levels above those seen in control tissues to one or more tissue specific antibodies, prepared from the gene sequences identified from EST sequences, can identify tissues of unknown origin, for example, forensic samples, or

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differentiated tumor tissue that has metastasized to foreign bodily sites.

The entire contents of all references cited above are hereby incorporated by reference.

5        While the present invention has been described in some detail for purposes of clarity and understanding, one skilled in the art will appreciate that various changes in form and detail can be made without departing from the true scope of the invention.

10

#### VII. Correlation of EST and Clone Identifiers

15        The EST sequences of the present invention are identified herein by SEQ ID NO, and are identified in the GenBank database by a different number, are identified in the inventors' lab (and upcoming publications) by EST number, and clones have been submitted to the American Type Culture Collection (Rockville, Maryland USA) under clone names. Table 12 cross references those different numbers for the ESTs from cDNA, SEQ ID NOS 1-2409.

20

Certain Sequence ID NOS are excluded from some claims based on their homology to known non-human sequences (See Table 2).



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Table 12. SEQ ID NO Cross References

SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone
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2	EST00009	M61953	HFA05	65	EST00067	M62011	HCC18	130	EST00253	M62254	HCC60	131	EST00253	M62254	HCC60
3	EST00010	M61961	HFA07	66	EST00068	M62280	HCC21	132	EST00254	M62287	HCC22	133	EST00254	M62287	HCC22
4	EST00011	M61962	HFA08	67	EST00069	M62012	HCC23	134	EST00255	M62014	HCC29	135	EST00255	M62014	HCC29
5	EST00012	M61963	HFA10	68	EST00070	M62015	HCC25	136	EST00256	M62016	HCC31	137	EST00256	M62016	HCC31
6	EST00013	M61964	HFA11	69	EST00071	M62017	HCC27	138	EST00257	M62018	HCC37	139	EST00257	M62018	HCC37
7	EST00014	M61965	HFA20	70	EST00072	M62019	HCC40	140	EST00258	M62019	HCC42	141	EST00258	M62019	HCC42
8	EST00015	M61966	HFA26	71	EST00073	M62020	HCC44	142	EST00259	M62020	HCC46	143	EST00259	M62020	HCC46
9	EST00016	M61967	HFA36	72	EST00074	M62021	HCC67	144	EST00260	M62021	HCC67	145	EST00260	M62021	HCC67
10	EST00017	M61968	HFA36	73	EST00075	M62022	HCC70	146	EST00261	M62022	HCC72	147	EST00261	M62022	HCC72
11	EST00018	M61969	HFA51	74	EST00076	M62023	HCC76	148	EST00262	M62023	HCC76	149	EST00262	M62023	HCC76
12	EST00019	M61970	HFA51	75	EST00077	M62024	HCC77	150	EST00263	M62024	HCC77	151	EST00263	M62024	HCC77
13	EST00020	M61971	HFA65	76	EST00078	M62025	HCC78	152	EST00264	M62025	HCC78	153	EST00264	M62025	HCC78
14	EST00021	M61972	HFA65	77	EST00079	M62026	HCC80	154	EST00265	M62026	HCC80	155	EST00265	M62026	HCC80
15	EST00022	M61973	HFA69	78	EST00080	M62027	HCC80	156	EST00266	M62027	HCC80	157	EST00266	M62027	HCC80
16	EST00023	M61974	HFA77	79	EST00081	M62028	HCC81	158	EST00267	M62028	HCC81	159	EST00267	M62028	HCC81
17	EST00024	M61975	HFA86	80	EST00082	M62029	HCC81	160	EST00268	M62029	HCC81	161	EST00268	M62029	HCC81
18	EST00025	M61976	HFA86	81	EST00083	M62030	HCC81	162	EST00269	M62030	HCC81	163	EST00269	M62030	HCC81
19	EST00026	M61977	HFA87	82	EST00084	M62031	HCC81	164	EST00270	M62031	HCC81	165	EST00270	M62031	HCC81
20	EST00027	M61978	HFA87	83	EST00085	M62032	HCC81	166	EST00271	M62032	HCC81	167	EST00271	M62032	HCC81
21	EST00028	M61979	HFA89	84	EST00086	M62033	HCC81	168	EST00272	M62033	HCC81	169	EST00272	M62033	HCC81
22	EST00029	M61980	HFA89	85	EST00087	M62034	HCC81	170	EST00273	M62034	HCC81	171	EST00273	M62034	HCC81
23	EST00030	M61981	HFA90	86	EST00088	M62035	HCC81	172	EST00274	M62035	HCC81	173	EST00274	M62035	HCC81
24	EST00031	M61982	HFA90	87	EST00089	M62036	HCC81	174	EST00275	M62036	HCC81	175	EST00275	M62036	HCC81
25	EST00032	M61983	HFA90	88	EST00090	M62037	HCC81	176	EST00276	M62037	HCC81	177	EST00276	M62037	HCC81
26	EST00033	M61984	HFA90	89	EST00091	M62038	HCC81	178	EST00277	M62038	HCC81	179	EST00277	M62038	HCC81
27	EST00034	M61985	HFA90	90	EST00092	M62039	HCC81	180	EST00278	M62039	HCC81	181	EST00278	M62039	HCC81
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29	EST00036	M61987	HFA90	92	EST00094	M62041	HCC81								
30	EST00037	M61988	HFA90	93	EST00095	M62042	HCC81								
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45	EST00052	M62003	HFA90	108	EST00110	M62057	HCC81								
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51	EST00058	M62009	HFA90	114	EST00116	M62063	HCC81								
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56	EST00063	M62014	HFA90	119	EST00121	M62068	HCC81								
57	EST00064	M62015	HFA90	120	EST00122	M62069	HCC81								
58	EST00065	M62016	HFA90	121	EST00123	M62070	HCC81								
59	EST00066	M62017	HFA90	122	EST00124	M62071	HCC81								
60	EST00067	M62018	HFA90	123	EST00125	M62072	HCC81								
61	EST00068	M62019	HFA90	124	EST00126	M62073	HCC81								
62	EST00069	M62020	HFA90	125	EST00127	M62074	HCC81								
63	EST00070	M62021	HFA90	126	EST00128	M62075	HCC81								

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SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone
112	EST00329	M62261	HHC159	317	EST00379	M78231	HHC8A86	317	EST00379	M78231	HHC8A86
183	EST00178	M62089	HHC161	318	EST00380	M78232	HHC8A87	318	EST00380	M78232	HHC8A87
184	EST00149	M62090	HHC162	319	EST00381	M78233	HHC8A92	319	EST00381	M78233	HHC8A92
185	EST00150	M62091	HHC173	320	EST00382	M78234	HHC8A95	320	EST00382	M78234	HHC8A95
186	EST00151	M62092	HHC175	321	EST00383	M78235	HHC8B05	321	EST00383	M78235	HHC8B05
187	EST00152	M62093	HHC179	322	EST00384	M78236	HHC8B07	322	EST00384	M78236	HHC8B07
188	EST00256	M62195	HHC184	323	EST00385	M78237	HHC8B08	323	EST00385	M78237	HHC8B08
189	EST00282	M62219	HHC185	324	EST01827	M85319	HHC8B09	324	EST01827	M85319	HHC8B09
190	EST00153	M62094	HHC186	325	EST00386	M78238	HHC8B10	325	EST00386	M78238	HHC8B10
191	EST00154	M62095	HHC188	326	EST00387	M78239	HHC8B11	326	EST00387	M78239	HHC8B11
192	EST00155	M62096	HHC190	327	EST00388	M78240	HHC8B13	327	EST00388	M78240	HHC8B13
193	EST00156	M62097	HHC192	328	EST00389	M78241	HHC8B18	328	EST00389	M78241	HHC8B18
194	EST00157	M62098	HHC193	329	EST00390	M78242	HHC8B21	329	EST00390	M78242	HHC8B21
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196	EST00159	M62100	HHC205	331	EST00392	M78244	HHC8B23	331	EST00392	M78244	HHC8B23
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202	EST00298	M62239	HHC220	337	EST00398	M78250	HHC8B33	337	EST00398	M78250	HHC8B33
203	EST00164	M62105	HHC230	338	EST00399	M78251	HHC8B34	338	EST00399	M78251	HHC8B34
204	EST00235	M62173	HHC235	339	EST00400	M78252	HHC8B37	339	EST00400	M78252	HHC8B37
205	EST00165	M62106	HHC236	340	EST00402	M78253	HHC8B43	340	EST00402	M78253	HHC8B43
206	EST00166	M62107	HHC237	341	EST00403	M78254	HHC8B44	341	EST00403	M78254	HHC8B44
207	EST00167	M62108	HHC238	342	EST00404	M78255	HHC8B45	342	EST00404	M78255	HHC8B45
208	EST00250	M62189	HHC242	343	EST01428	M78256	HHC8B47	343	EST01428	M78256	HHC8B47
209	EST00331	M62262	HHC243	344	EST00405	M78257	HHC8B48	344	EST00405	M78257	HHC8B48
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211	EST00332	M62263	HHC248	346	EST01828	M85320	HHC8B53	346	EST01828	M85320	HHC8B53
212	EST00169	M62110	HHC250	347	EST01830	M85321	HHC8B55	347	EST01830	M85321	HHC8B55
213	EST00170	M62111	HHC251	348	EST01831	M85322	HHC8B56	348	EST01831	M85322	HHC8B56
214	EST00171	M62112	HHC252	349	EST00407	M78259	HHC8B57	349	EST00407	M78259	HHC8B57
215	EST00172	M62113	HHC253	350	EST00408	M78260	HHC8B58	350	EST00408	M78260	HHC8B58
216	EST00173	M62114	HHC254	351	EST00409	M78261	HHC8B62	351	EST00409	M78261	HHC8B62
217	EST00174	M62115	HHC255	352	EST00410	M78262	HHC8B68	352	EST00410	M78262	HHC8B68
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219	EST00176	M62117	HHC257	354	EST00411	M78264	HHC8B70	354	EST00411	M78264	HHC8B70
220	EST00372	M62298	HHC258	355	EST00412	M78265	HHC8B73	355	EST00412	M78265	HHC8B73
221	EST00359	M62286	HHC259	356	EST00413	M78266	HHC8B77	356	EST00413	M78266	HHC8B77
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223	EST00368	M62294	HHC261	358	EST00415	M78268	HHC8B79	358	EST00415	M78268	HHC8B79
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229	EST00181	M62122	HHC267	364	EST00421	M78274	HHC8B97	364	EST00421	M78274	HHC8B97
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232	EST00183	M62125	HHC270	367	EST00423	M78276	HHC8C36	367	EST00423	M78276	HHC8C36
233	EST00184	M62126	HHC271	368	EST00424	M78277	HHC8C37	368	EST00424	M78277	HHC8C37
234	EST00185	M62127	HHC272	369	EST00425	M78278	HHC8C38	369	EST00425	M78278	HHC8C38
235	EST00186	M62128	HHC273	370	EST00426	M78279	HHC8C39	370	EST00426	M78279	HHC8C39
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246	EST00229	M62217	HHC284								
247	EST00271	M62209	HHC285								
248	EST00271	M62209	HHC286								

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SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone
751	EST00721	W78573	HFBC66	885	EST01885	M85371	HFBC12
752	EST00722	W78574	HFBC67	886	EST01886	M85372	HFBC13
753	EST00723	W78575	HFBC68	887	EST01887	M85373	HFBC14
754	EST01541	W77957	HFBC69	888	EST01888	M85374	HFBC15
755	EST00724	W78576	HFBC70	889	EST01889	M85375	HFBC16
756	EST00725	W78577	HFBC71	890	EST01890	M85376	HFBC17
757	EST00726	W78578	HFBC72	891	EST01891	M85377	HFBC18
758	EST00727	W78579	HFBC73	892	EST01892	M85378	HFBC19
759	EST00728	W78580	HFBC74	893	EST01893	M85379	HFBC20
760	EST01542	W77960	HFBC75	894	EST01894	M85380	HFBC21
761	EST00729	W78581	HFBC76	895	EST01895	M85381	HFBC22
762	EST00730	W78582	HFBC77	896	EST01896	M85382	HFBC23
763	EST00731	W78583	HFBC78	897	EST01897	M85383	HFBC24
764	EST00732	W78584	HFBC79	898	EST01898	M85384	HFBC25
765	EST00733	W78585	HFBC80	899	EST01899	M85385	HFBC26
766	EST00734	W78586	HFBC81	900	EST01900	M85386	HFBC27
767	EST00735	W78587	HFBC82	901	EST01901	M85387	HFBC28
768	EST01543	W77961	HFBC83	902	EST01902	M85388	HFBC29
769	EST00736	W78588	HFBC84	903	EST01903	M85389	HFBC30
770	EST00737	W77962	HFBC85	904	EST01904	M85390	HFBC31
771	EST01544	W77963	HFBC86	905	EST01905	M85391	HFBC32
772	EST00738	W77964	HFBC87	906	EST01906	M85392	HFBC33
773	EST00739	W78589	HFBC88	907	EST01907	M85393	HFBC34
774	EST00740	W78590	HFBC89	908	EST01908	M85394	HFBC35
775	EST00741	W78591	HFBC90	909	EST01909	M85395	HFBC36
776	EST00742	W78592	HFBC91	910	EST01910	M85396	HFBC37
777	EST00743	W78593	HFBC92	911	EST01911	M85397	HFBC38
778	EST00744	W78594	HFBC93	912	EST01912	M85398	HFBC39
779	EST01545	W77965	HFBC94	913	EST01913	M85399	HFBC40
780	EST00745	W77966	HFBC95	914	EST01914	M85400	HFBC41
781	EST00746	W77967	HFBC96	915	EST01915	M85401	HFBC42
782	EST01546	W77968	HFBC97	916	EST01916	M85402	HFBC43
783	EST00747	W78595	HFBC98	917	EST01917	M85403	HFBC44
784	EST00748	W78596	HFBC99	918	EST01918	M85404	HFBC45
785	EST00749	W78597	HFBC00	919	EST01919	M85405	HFBC46
786	EST00750	W78598	HFBC01	920	EST01920	M85406	HFBC47
787	EST00751	W77971	HFBC02	921	EST01921	M85407	HFBC48
788	EST00752	W78600	HFBC03	922	EST01922	M85408	HFBC49
789	EST00753	W78601	HFBC04	923	EST01923	M85409	HFBC50
790	EST00754	W78602	HFBC05	924	EST01924	M85410	HFBC51
791	EST00755	W78603	HFBC06	925	EST01925	M85411	HFBC52
792	EST00756	W78604	HFBC07	926	EST01926	M85412	HFBC53
793	EST00757	W78605	HFBC08	927	EST01927	M85413	HFBC54
794	EST00758	W78606	HFBC09	928	EST01928	M85414	HFBC55
795	EST00759	W78607	HFBC10	929	EST01929	M85415	HFBC56
796	EST00760	W78608	HFBC11	930	EST01930	M85416	HFBC57
797	EST00761	W78609	HFBC12	931	EST01931	M85417	HFBC58
798	EST00762	W78610	HFBC13	932	EST01932	M85418	HFBC59
799	EST00763	W78611	HFBC14	933	EST01933	M85419	HFBC60
800	EST00764	W78612	HFBC15	934	EST01934	M85420	HFBC61
801	EST00765	W78613	HFBC16	935	EST01935	M85421	HFBC62
802	EST00766	W78614	HFBC17	936	EST01936	M85422	HFBC63
803	EST00767	W78615	HFBC18	937	EST01937	M85423	HFBC64
804	EST00768	W78616	HFBC19	938	EST01938	M85424	HFBC65
805	EST00769	W78617	HFBC20	939	EST01939	M85425	HFBC66
806	EST00770	W78618	HFBC21	940	EST01940	M85426	HFBC67
807	EST00771	W78619	HFBC22	941	EST01941	M85427	HFBC68
808	EST00772	W78620	HFBC23		EST01942	M85428	HFBC69
809	EST00773	W78621	HFBC24		EST01943	M85429	HFBC70
810	EST00774	W78622	HFBC25		EST01944	M85430	HFBC71
811	EST00775	W78623	HFBC26		EST01945	M85431	HFBC72
812	EST00776	W78624	HFBC27				HFBC73
813	EST00777	W78625	HFBC28				HFBC74
814	EST00778	W78626	HFBC29				HFBC75
815	EST00779	W78627	HFBC30				HFBC76
816	EST00780	W78628	HFBC31				HFBC77
817	EST00781	W78629	HFBC32				HFBC78
818	EST00782	W78630	HFBC33				HFBC79
819	EST00783	W78631	HFBC34				HFBC80
820	EST00784	W78632	HFBC35				HFBC81
821	EST00785	W78633	HFBC36				HFBC82
822	EST00786	W78634	HFBC37				HFBC83
823	EST00787	W78635	HFBC38				HFBC84
824	EST00788	W78636	HFBC39				HFBC85
825	EST00789	W78637	HFBC40				HFBC86
826	EST00790	W78638	HFBC41				HFBC87
827	EST00791	W78639	HFBC42				HFBC88
828	EST00792	W78640	HFBC43				HFBC89
829	EST00793	W78641	HFBC44				HFBC90
830	EST00794	W78642	HFBC45				HFBC91
831	EST00795	W78643	HFBC46				HFBC92
832	EST00796	W78644	HFBC47				HFBC93
833	EST00797	W78645	HFBC48				HFBC94
834	EST00798	W78646	HFBC49				HFBC95
835	EST00799	W78647	HFBC50				HFBC96
836	EST00800	W78648	HFBC51				HFBC97
837	EST00801	W78649	HFBC52				HFBC98
838	EST00802	W78650	HFBC53				HFBC99
839	EST00803	W78651	HFBC54				HFBC00
840	EST00804	W78652	HFBC55				HFBC01
841	EST00805	W78653	HFBC56				HFBC02
842	EST00806	W78654	HFBC57				HFBC03
843	EST00807	W78655	HFBC58				HFBC04
844	EST00808	W78656	HFBC59				HFBC05
845	EST00809	W78657	HFBC60				HFBC06
846	EST00810	W78658	HFBC61				HFBC07
847	EST00811	W78659	HFBC62				HFBC08
848	EST00812	W78660	HFBC63				HFBC09
849	EST00813	W78661	HFBC64				HFBC10
850	EST00814	W78662	HFBC65				HFBC11
851	EST00815	W78663	HFBC66				HFBC12
852	EST00816	W78664	HFBC67				HFBC13
853	EST00817	W78665	HFBC68				HFBC14
854	EST00818	W78666	HFBC69				HFBC15
855	EST00819	W78667	HFBC70				HFBC16
856	EST00820	W78668	HFBC71				HFBC17
857	EST00821	W78669	HFBC72				HFBC18
858	EST00822	W78670	HFBC73				HFBC19
859	EST00823	W78671	HFBC74				HFBC20
860	EST00824	W78672	HFBC75				HFBC21
861	EST00825	W78673	HFBC76				HFBC22
862	EST00826	W78674	HFBC77				HFBC23
863	EST00827	W78675	HFBC78				HFBC24
864	EST00828	W78676	HFBC79				HFBC25
865	EST00829	W78677	HFBC80				HFBC26
866	EST00830	W78678	HFBC81				HFBC27
867	EST00831	W78679	HFBC82				HFBC28
868	EST00832	W78680	HFBC83				HFBC29
869	EST00833	W78681	HFBC84				HFBC30
870	EST00834	W78682	HFBC85				HFBC31
871	EST00835	W78683	HFBC86				HFBC32
872	EST00836	W78684	HFBC87				HFBC33
873	EST00837	W78685	HFBC88				HFBC34
874	EST00838	W78686	HFBC89				HFBC35
875	EST00839	W78687	HFBC90				HFBC36
876	EST00840	W78688	HFBC91				HFBC37
877	EST00841	W78689	HFBC92				HFBC38
878	EST00842	W78690	HFBC93				HFBC39
879	EST00843	W78691	HFBC94				HFBC40
880	EST00844	W78692	HFBC95				HFBC41
881	EST00845	W78693	HFBC96				HFBC42
882	EST00846	W78694	HFBC97				HFBC43
883	EST00847	W78695	HFBC98				HFBC44
884	EST00848	W78696	HFBC99				HFBC45



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SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone
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1132	EST02152	M85635	HFBC18	1253	EST02282	M85761	HFBCN25	1294	EST02312	M85791	HFBCN9	1313	EST02343	M85821	HFBC037
1133	EST02153	M85636	HFBC20	1254	EST02283	M85762	HFBCN29	1295	EST02313	M85792	HFBCN1				
1134	EST02154	M85637	HFBC22	1255	EST02284	M85763	HFBCN31	1296	EST02314	M85793	HFBCN7				
1135	EST02155	M85638	HFBC23	1256	EST02285	M85764	HFBCN36	1297	EST02315	M85794	HFBCN82				
1136	EST02156	M85639	HFBC24	1257	EST02286	M85765	HFBCN37	1298	EST02316	M85795	HFBCN83				
1137	EST02157	M85640	HFBC25	1258	EST02287	M85766	HFBCN39	1299	EST02317	M85796	HFBCN84				
1138	EST02158	M85641	HFBC28	1259	EST02288	M85767	HFBCN42	1300	EST02318	M85797	HFBCN85				
1139	EST02159	M85642	HFBC30	1260	EST02289	M85768	HFBCN43	1301	EST02319	M85798	HFBCN87				
1140	EST02160	M85643	HFBC31	1261	EST02290	M85769	HFBCN44	1302	EST02320	M85799	HFBCN88				
1141	EST02161	M85644	HFBC32	1262	EST02291	M85770	HFBCN45	1303	EST02321	M85800	HFBCN89				
1142	EST02162	M85645	HFBC34	1263	EST02292	M85771	HFBCN47	1304	EST02322	M85801	HFBCN90				
1143	EST02163	M85646	HFBC35	1264	EST02293	M85772	HFBCN48	1305	EST02323	M85802	HFBCN91				
1144	EST02164	M85647	HFBC36	1265	EST02294	M85773	HFBCN49	1306	EST02324	M85803	HFBCN92				
1145	EST02165	M85648	HFBC37	1266	EST02295	M85774	HFBCN50	1307	EST02325	M85804	HFBCN93				
1146	EST02166	M85649	HFBC38	1267	EST02296	M85775	HFBCN51	1308	EST02326	M85805	HFBCN94				
1147	EST02167	M85650	HFBC39	1268	EST02297	M85776	HFBCN52	1309	EST02327	M85806	HFBCN96				
1148	EST02168	M85651	HFBC41	1269	EST02298	M85777	HFBCN54	1310	EST02328	M85807	HFBCN98				
1149	EST02169	M85652	HFBC46	1270	EST02299	M85778	HFBCN55	1311	EST02329	M85808	HFBCO23				
1150	EST02170	M85653	HFBC47	1271	EST02300	M85779	HFBCN57	1312	EST02330	M85809	HFBCO24				
1151	EST02171	M85654	HFBC48	1272	EST02301	M85780	HFBCN58	1313	EST02331	M85810	HFBCO25				
1152	EST02172	M85655	HFBC50	1273	EST02302	M85781	HFBCN59		EST02332	M85811	HFBCO26				
1153	EST02173	M85656	HFBC51	1274	EST02303	M85782	HFBCN60		EST02333	M85812	HFBCO27				
1154	EST02174	M85657	HFBC52	1275	EST02304	M85783	HFBCN61		EST02334	M85813	HFBCO28				
1155	EST02175	M85658	HFBC53	1276	EST02305	M85784	HFBCN62		EST02335	M85814	HFBCO29				
1156	EST02176	M85659	HFBC54	1277	EST02306	M85785	HFBCN64		EST02336	M85815	HFBCO30				
1157	EST02177	M85660	HFBC58	1278	EST02307	M85786	HFBCN65		EST02337	M85816	HFBCO31				
1158	EST02178	M85661	HFBC59	1279	EST02308	M85787	HFBCN66		EST02338	M85817	HFBCO33				
1159	EST02179	M85662	HFBC68	1280	EST02309	M85788	HFBCN67		EST02339	M85818	HFBCO34				
1160	EST02180	M85663	HFBC71	1281	EST02310	M85789	HFBCN68		EST02340	M85819	HFBCO35				
1161	EST02181	M85664	HFBC72	1282	EST02311	M85790	HFBCN69		EST02341	M85820	HFBCO36				
1162	EST02182	M85665	HFBC77	1283	EST02312	M85791	HFBCN71		EST02342	M85821	HFBCO37				
1163	EST02183	M85666	HFBC78	1284	EST02313	M85792	HFBCN72								
1164	EST02184	M85667	HFBC79	1285	EST02314	M85793	HFBCN73								
1165	EST02185	M85668	HFBC75	1286	EST02315	M85794	HFBCN77								
1166	EST02186	M85669	HFBC77	1287	EST02316	M85795	HFBCN82								
1167	EST02187	M85670	HFBC79	1288	EST02317	M85796	HFBCN83								
1168	EST02188	M85671	HFBC82	1289	EST02318	M85797	HFBCN84								
1169	EST02189	M85672	HFBC83	1290	EST02319	M85798	HFBCN85								
1170	EST02190	M85673	HFBC86	1291	EST02320	M85799	HFBCN87								
1171	EST02191	M85674	HFBC87	1292	EST02321	M85800	HFBCN88								
1172	EST02192	M85675	HFBC88	1293	EST02322	M85801	HFBCN89								
1173	EST02193	M85676	HFBC89	1294	EST02323	M85802	HFBCN90								
1174	EST02194	M85677	HFBC92	1295	EST02324	M85803	HFBCN91								
1175	EST02195	M85678	HFBC94	1296	EST02325	M85804	HFBCN92								
1176	EST02196	M85679	HFBC95	1297	EST02326	M85805	HFBCN93								
1177	EST02197	M85680	HFBC96	1298	EST02327	M85806	HFBCN94								
1178	EST02198	M85681	HFBC99	1299	EST02328	M85807	HFBCN96								
1179	EST02199	M85682	HFBC95	1300	EST02329	M85808	HFBCO23								
1180	EST02200	M85683	HFBC96	1301	EST02330	M85809	HFBCO24								
1181	EST02201	M85684	HFBC97	1302	EST02331	M85810	HFBCO25								
1182	EST02202	M85685	HFBC98	1303	EST02332	M85811	HFBCO26								
1183	EST02203	M85686	HFBC99	1304	EST02333	M85812	HFBCO27								
1184	EST02204	M85687	HFBC99	1305	EST02334	M85813	HFBCO28								
1185	EST02205	M85688	HFBC99	1306	EST02335	M85814	HFBCO29								
1186	EST02206	M85689	HFBC99	1307	EST02336	M85815	HFBCO30								
1187	EST02207	M85690	HFBC99	1308	EST02337	M85816	HFBCO31								
1188	EST02208	M85691	HFBC99	1309	EST02338	M85817	HFBCO33								
1189	EST02209	M85692	HFBC99	1310	EST02339	M85818	HFBCO34								
1190	EST02210	M85693	HFBC99	1311	EST02340	M85819	HFBCO35								
1191	EST02211	M85694	HFBC99	1312	EST02341	M85820	HFBCO36								
1192	EST02212	M85695	HFBC99	1313	EST02342	M85821	HFBCO37								
1193	EST02213	M85696	HFBC99												
1194	EST02214	M85697	HFBC99												
1195	EST02215	M85698	HFBC99												
1196	EST02216	M85699	HFBC99												
1197	EST02217	M85700	HFBC99												
1198	EST02218	M85701	HFBC99												
1199	EST02219	M85702	HFBC99												
1200	EST02220	M85703	HFBC99												
1201	EST02221	M85704	HFBC99												

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SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone
1314	EST02344	M85822	HFBC038	1446	EST02482	M85958	HFBC019
1315	EST02345	M85823	HFBC038	1447	EST02483	M85959	HFBCP22
1316	EST02346	M85824	HFBC039	1448	EST02484	M85960	HFBCP23
1317	EST02347	M85825	HFBC040	1449	EST02485	M85961	HFBCP24
1318	EST02348	M85826	HFBC041	1450	EST02486	M85962	HFBCP25
1319	EST02349	M85827	HFBC042	1451	EST02487	M85963	HFBCP26
1320	EST02350	M85828	HFBC043	1452	EST02488	M85964	HFBCP27
1321	EST02351	M85829	HFBC044	1453	EST02489	M85965	HFBCP28
1322	EST02352	M85830	HFBC045	1454	EST02490	M85966	HFBCP29
1323	EST02353	M85831	HFBC046	1455	EST02491	M85967	HFBCP30
1324	EST02354	M85832	HFBC047	1456	EST02492	M85968	HFBCP31
1325	EST02355	M85833	HFBC048	1457	EST02493	M85969	HFBCP32
1326	EST02356	M85834	HFBC049	1458	EST02494	M85970	HFBCP33
1327	EST02357	M85835	HFBC050	1459	EST02495	M85971	HFBCP34
1328	EST02358	M85836	HFBC051	1460	EST02496	M85972	HFBCP35
1329	EST02359	M85837	HFBC052	1461	EST02497	M85973	HFBCP36
1330	EST02360	M85838	HFBC053	1462	EST02498	M85974	HFBCP37
1331	EST02361	M85839	HFBC054	1463	EST02499	M85975	HFBCP38
1332	EST02362	M85840	HFBC055	1464	EST02500	M85976	HFBCP39
1333	EST02363	M85841	HFBC056	1465	EST02501	M85977	HFBCP40
1334	EST02364	M85842	HFBC057	1466	EST02502	M85978	HFBCP41
1335	EST02365	M85843	HFBC058	1467	EST02503	M85979	HFBCP42
1336	EST02366	M85844	HFBC059	1468	EST02504	M85980	HFBCP43
1337	EST02367	M85845	HFBC060	1469	EST02505	M85981	HFBCP44
1338	EST02368	M85846	HFBC061	1470	EST02506	M85982	HFBCP45
1339	EST02369	M85847	HFBC062	1471	EST02507	M85983	HFBCP46
1340	EST02370	M85848	HFBC063	1472	EST02508	M85984	HFBCP47
1341	EST02371	M85849	HFBC064	1473	EST02509	M85985	HFBCP48
1342	EST02372	M85850	HFBC065	1474	EST02510	M85986	HFBCP49
1343	EST02373	M85851	HFBC066	1475	EST02511	M85987	HFBCP50
1344	EST02374	M85852	HFBC067	1476	EST02512	M85988	HFBCP51
1345	EST02375	M85853	HFBC068	1477	EST02513	M85989	HFBCP52
1346	EST02376	M85854	HFBC069	1478	EST02514	M85990	HFBCP53
1347	EST02377	M85855	HFBC070	1479	EST02515	M85991	HFBCP54
1348	EST02378	M85856	HFBC071	1480	EST02516	M85992	HFBCP55
1349	EST02379	M85857	HFBC072	1481	EST02517	M85993	HFBCP56
1350	EST02380	M85858	HFBC073	1482	EST02518	M85994	HFBCP57
1351	EST02381	M85859	HFBC074	1483	EST02519	M85995	HFBCP58
1352	EST02382	M85860	HFBC075	1484	EST02520	M85996	HFBCP59
1353	EST02383	M85861	HFBC076	1485	EST02521	M85997	HFBCP60
1354	EST02384	M85862	HFBC077	1486	EST02522	M85998	HFBCP61
1355	EST02385	M85863	HFBC078	1487	EST02523	M85999	HFBCP62
1356	EST02386	M85864	HFBC079	1488	EST02524	M86000	HFBCP63
1357	EST02387	M85865	HFBC080	1489	EST02525	M86001	HFBCP64
1358	EST02388	M85866	HFBC081	1490	EST02526	M86002	HFBCP65
1359	EST02389	M85867	HFBC082	1491	EST02527	M86003	HFBCP66
1360	EST02390	M85868	HFBC083	1492	EST02528	M86004	HFBCP67
1361	EST02391	M85869	HFBC084	1493	EST02529	M86005	HFBCP68
1362	EST02392	M85870	HFBC085	1494	EST02530	M86006	HFBCP69
1363	EST02393	M85871	HFBC086	1495	EST02531	M86007	HFBCP70
1364	EST02394	M85872	HFBC087	1496	EST02532	M86008	HFBCP71
1365	EST02395	M85873	HFBC088	1497	EST02533	M86009	HFBCP72
1366	EST02396	M85874	HFBC089	1498	EST02534	M86010	HFBCP73
1367	EST02397	M85875	HFBC090	1499	EST02535	M86011	HFBCP74
1368	EST02398	M85876	HFBC091	1500	EST02536	M86012	HFBCP75
1369	EST02399	M85877	HFBC092	1501	EST02537	M86013	HFBCP76
1370	EST02400	M85878	HFBC093	1502	EST02538	M86014	HFBCP77
1371	EST02401	M85879	HFBC094		EST02539	M86015	HFBCP78
1372	EST02402	M85880	HFBC095				
1373	EST02403	M85881	HFBC096				
1374	EST02404	M85882	HFBC097				
1375	EST02405	M85883	HFBC098				
1376	EST02406	M85884	HFBC099				
1377	EST02407	M85885	HFBC100				
1378	EST02408	M85886	HFBC101				
1379	EST02409		HFBC102				
1380	EST02410		HFBC103				

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SEQ ID	EST#	GB#	Clone	Clone	SEQ ID	EST#	GB#	Clone	Clone
1881	EST01000	M78852	HHCNH48	HHCPC05	2013	EST01107	M78959	HHCPC05	HHCPC05
1882	EST01001	M78853	HHCNH53	HHCPC06	2014	EST01108	M78960	HHCPC06	HHCPC06
1883	EST01002	M78854	HHCNH54	HHCPC07	2015	EST01109	M78961	HHCPC07	HHCPC07
1884	EST01003	M78855	HHCNH55	HHCPC08	2016	EST01110	M78962	HHCPC08	HHCPC08
1885	EST01004	M78856	HHCNH56	HHCPC09	2017	EST01111	M78963	HHCPC09	HHCPC09
1886	EST01005	M78857	HHCNH57	HHCPC10	2018	EST01112	M78964	HHCPC10	HHCPC10
1887	EST01006	M78858	HHCNH58	HHCPC11	2019	EST01113	M78965	HHCPC11	HHCPC11
1888	EST01007	M78859	HHCNH59	HHCPC12	2020	EST01114	M78966	HHCPC12	HHCPC12
1889	EST01008	M78860	HHCNH60	HHCPC13	2021	EST01115	M78967	HHCPC13	HHCPC13
1890	EST01009	M78861	HHCNH61	HHCPC14	2022	EST01116	M78968	HHCPC14	HHCPC14
1891	EST01010	M78862	HHCNH62	HHCPC15	2023	EST01117	M78969	HHCPC15	HHCPC15
1892	EST01011	M78863	HHCNH63	HHCPC16	2024	EST01118	M78970	HHCPC16	HHCPC16
1893	EST01012	M78864	HHCNH64	HHCPC17	2025	EST01119	M78971	HHCPC17	HHCPC17
1894	EST01013	M78865	HHCNH65	HHCPC18	2026	EST01120	M78972	HHCPC18	HHCPC18
1895	EST01014	M78866	HHCNH66	HHCPC19	2027	EST01121	M78973	HHCPC19	HHCPC19
1896	EST01015	M78867	HHCNH67	HHCPC20	2028	EST01122	M78974	HHCPC20	HHCPC20
1897	EST01016	M78868	HHCNH68	HHCPC21	2029	EST01123	M78975	HHCPC21	HHCPC21
1898	EST01017	M78869	HHCNH69	HHCPC22	2030	EST01124	M78976	HHCPC22	HHCPC22
1899	EST01018	M78870	HHCNH70	HHCPC23	2031	EST01125	M78977	HHCPC23	HHCPC23
1900	EST01019	M78871	HHCNH71	HHCPC24	2032	EST01126	M78978	HHCPC24	HHCPC24
1901	EST01020	M78872	HHCNH72	HHCPC25	2033	EST01127	M78979	HHCPC25	HHCPC25
1902	EST01021	M78873	HHCNH73	HHCPC26	2034	EST01128	M78980	HHCPC26	HHCPC26
1903	EST01022	M78874	HHCNH74	HHCPC27	2035	EST01129	M78981	HHCPC27	HHCPC27
1904	EST01023	M78875	HHCNH75	HHCPC28	2036	EST01130	M78982	HHCPC28	HHCPC28
1905	EST01024	M78876	HHCNH76	HHCPC29	2037	EST01131	M78983	HHCPC29	HHCPC29
1906	EST01025	M78877	HHCNH77	HHCPC30	2038	EST01132	M78984	HHCPC30	HHCPC30
1907	EST01026	M78878	HHCNH78	HHCPC31	2039	EST01133	M78985	HHCPC31	HHCPC31
1908	EST01027	M78879	HHCNH79	HHCPC32	2040	EST01134	M78986	HHCPC32	HHCPC32
1909	EST01028	M78880	HHCNH80	HHCPC33	2041	EST01135	M78987	HHCPC33	HHCPC33
1910	EST01029	M78881	HHCNH81	HHCPC34	2042	EST01136	M78988	HHCPC34	HHCPC34
1911	EST01030	M78882	HHCNH82	HHCPC35	2043	EST01137	M78989	HHCPC35	HHCPC35
1912	EST01031	M78883	HHCNH83	HHCPC36	2044	EST01138	M78990	HHCPC36	HHCPC36
1913	EST01032	M78884	HHCNH84	HHCPC37	2045	EST01139	M78991	HHCPC37	HHCPC37
1914	EST01033	M78885	HHCNH85	HHCPC38	2046	EST01140	M78992	HHCPC38	HHCPC38
1915	EST01034	M78886	HHCNH86	HHCPC39	2047	EST01141	M78993	HHCPC39	HHCPC39
1916	EST01035	M78887	HHCNH87	HHCPC40	2048	EST01142	M78994	HHCPC40	HHCPC40
1917	EST01036	M78888	HHCNH88	HHCPC41	2049	EST01143	M78995	HHCPC41	HHCPC41
1918	EST01037	M78889	HHCNH89	HHCPC42	2050	EST01144	M78996	HHCPC42	HHCPC42
1919	EST01038	M78890	HHCNH90	HHCPC43	2051	EST01145	M78997	HHCPC43	HHCPC43
1920	EST01039	M78891	HHCNH91	HHCPC44	2052	EST01146	M78998	HHCPC44	HHCPC44
1921	EST01040	M78892	HHCNH92	HHCPC45	2053	EST01147	M78999	HHCPC45	HHCPC45
1922	EST01041	M78893	HHCNH93	HHCPC46	2054	EST01148	M86169	HHCPC46	HHCPC46
1923	EST01042	M78894	HHCNH94	HHCPC47	2055	EST01149	M79000	HHCPC47	HHCPC47
1924	EST01043	M78895	HHCNH95	HHCPC48	2056	EST01150	M79001	HHCPC48	HHCPC48
1925	EST01044	M78896	HHCNH96	HHCPC49	2057	EST01151	M79002	HHCPC49	HHCPC49
1926	EST01045	M78897	HHCNH97	HHCPC50	2058	EST01152	M79003	HHCPC50	HHCPC50
1927	EST01046	M78898	HHCNH98	HHCPC51	2059	EST01153	M79004	HHCPC51	HHCPC51
1928	EST01047	M78899	HHCNH99	HHCPC52	2060	EST01154	M79005	HHCPC52	HHCPC52
1929	EST01048	M78900	HHCNH00	HHCPC53	2061	EST01155	M79006	HHCPC53	HHCPC53
1930	EST01049	M78901	HHCNH01	HHCPC54	2062	EST01156	M79007	HHCPC54	HHCPC54
1931	EST01050	M78902	HHCNH02	HHCPC55	2063	EST01157	M79008	HHCPC55	HHCPC55
1932	EST01051	M78903	HHCNH03	HHCPC56	2064	EST01158	M79009	HHCPC56	HHCPC56
1933	EST01052	M78904	HHCNH04	HHCPC57	2065	EST01159	M79010	HHCPC57	HHCPC57
1934	EST01053	M78905	HHCNH05	HHCPC58	2066	EST01160	M79011	HHCPC58	HHCPC58
1935	EST01054	M78906	HHCNH06	HHCPC59	2067	EST01161	M79012	HHCPC59	HHCPC59
1936	EST01055	M78907	HHCNH07	HHCPC60	2068	EST01162	M79013	HHCPC60	HHCPC60
1937	EST01056	M78908	HHCNH08	HHCPC61	2069	EST01163	M79014	HHCPC61	HHCPC61
1938	EST01057	M78909	HHCNH09	HHCPC62					
1939	EST01058	M78910	HHCNH10	HHCPC63					
1940	EST01059	M78911	HHCNH11	HHCPC64					
1941	EST01060	M78912	HHCNH12	HHCPC65					
1942	EST01061	M78913	HHCNH13	HHCPC66					
1943	EST01062	M78914	HHCNH14	HHCPC67					
1944	EST01063	M78915	HHCNH15	HHCPC68					
1945	EST01064	M78916	HHCNH16	HHCPC69					
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SEQ. ID	EST#	GB#	Clone	SEQ. ID	EST#	GB#	Clone
2070	EST011151	M79003	HHCPL63	2202	EST01732	M78141	HHCPL33
2071	EST011696	M78106	HHCPL65	2203	EST01264	M79116	HHCPL40
2072	EST01152	M79004	HHCPL76	2204	EST01265	M78124	HHCPL42
2073	EST01697	M78107	HHCPL77	2205	EST01235	M78144	HHCPL44
2074	EST01698	M78108	HHCPL79	2206	EST01236	M78145	HHCPL46
2075	EST01153	M79005	HHCPL81	2207	EST01266	M79118	HHCPL48
2076	EST02702	M86170	HHCPL82	2208	EST01267	M79119	HHCPL50
2077	EST01154	M79006	HHCPL84	2209	EST02717		HHCPL54
2078	EST01155	M79007	HHCPL87	2210	EST01268	M79120	HHCPL56
2079	EST01156	M79008	HHCPL93	2211	EST01269	M79121	HHCPL58
2080	EST01157	M79009	HHCPL96	2212	EST01270	M79122	HHCPL60
2081	EST01158	M79010	HHCPL99	2213	EST01271	M79123	HHCPL62
2082	EST01159	M79011	HHCPL101	2214	EST01272	M79124	HHCPL64
2083	EST01160	M79012	HHCPL103	2215	EST01273	M79125	HHCPL66
2084	EST01161	M79013	HHCPL105	2216	EST01274	M79126	HHCPL68
2085	EST01162	M79014	HHCPL107	2217	EST01275	M79127	HHCPL70
2086	EST01163	M79015	HHCPL109	2218	EST01276	M79128	HHCPL72
2087	EST01164	M79016	HHCPL111	2219	EST01277	M79129	HHCPL74
2088	EST01166	M79018	HHCPL113	2220	EST01278	M79130	HHCPL76
2089	EST01167	M79019	HHCPL115	2221	EST01279	M79131	HHCPL78
2090	EST01168	M79020	HHCPL117	2222	EST01280	M79132	HHCPL80
2091	EST01169	M79021	HHCPL119	2223	EST01281	M79133	HHCPL82
2092	EST01170	M79022	HHCPL121	2224	EST01282	M79134	HHCPL84
2093	EST01171	M79023	HHCPL123	2225	EST01283	M79135	HHCPL86
2094	EST01172	M78111	HHCPL125	2226	EST01284	M79136	HHCPL88
2095	EST01173	M79024	HHCPL127	2227	EST01285	M79137	HHCPL90
2096	EST01174	M79025	HHCPL129	2228	EST01286	M79138	HHCPL92
2097	EST01175	M79026	HHCPL131	2229	EST01287	M79139	HHCPL94
2098	EST01176	M79027	HHCPL133	2230	EST01288	M79140	HHCPL96
2099	EST01177	M79028	HHCPL135	2231	EST01289	M79141	HHCPL98
2100	EST01178	M79029	HHCPL137	2232	EST01290	M79142	HHCPL100
2101	EST01179	M79030	HHCPL139	2233	EST01291	M79143	HHCPL102
2102	EST01180	M79031	HHCPL141	2234	EST01292	M79144	HHCPL104
2103	EST01181	M79032	HHCPL143	2235	EST01293	M79145	HHCPL106
2104	EST01182	M79033	HHCPL145	2236	EST01294	M79146	HHCPL108
2105	EST01183	M79034	HHCPL147	2237	EST01295	M79147	HHCPL110
2106	EST01184	M79035	HHCPL149	2238	EST01296	M79148	HHCPL112
2107	EST01185	M79036	HHCPL151	2239	EST01297	M79149	HHCPL114
2108	EST01186	M79037	HHCPL153	2240	EST01298	M79150	HHCPL116
2109	EST01187	M79038	HHCPL155	2241	EST01299	M79151	HHCPL118
2110	EST01188	M79039	HHCPL157	2242	EST01300	M79152	HHCPL120
2111	EST01189	M79040	HHCPL159	2243	EST01301	M79153	HHCPL122
2112	EST01190	M79041	HHCPL161	2244	EST01302	M79154	HHCPL124
2113	EST01191	M79042	HHCPL163	2245	EST01303	M79155	HHCPL126
2114	EST01192	M79043	HHCPL165	2246	EST01304	M79156	HHCPL128
2115	EST01193	M79044	HHCPL167	2247	EST01305	M79157	HHCPL130
2116	EST01194	M79045	HHCPL169	2248	EST01306	M79158	HHCPL132
2117	EST01195	M79046	HHCPL171	2249	EST01307	M79159	HHCPL134
2118	EST01196	M79047	HHCPL173	2250	EST01308	M79160	HHCPL136
2119	EST01197	M79048	HHCPL175	2251	EST01309	M79161	HHCPL138
2120	EST01198	M79049	HHCPL177	2252	EST01310	M79162	HHCPL140
2121	EST01199	M79050	HHCPL179	2253	EST01311	M79163	HHCPL142
2122	EST01200	M79051	HHCPL181	2254	EST01312	M79164	HHCPL144
2123	EST01201	M79052	HHCPL183	2255	EST01313	M79165	HHCPL146
2124	EST01202	M79053	HHCPL185	2256	EST01314	M79166	HHCPL148
2125	EST01203	M79054	HHCPL187	2257	EST01315	M79167	HHCPL150
2126	EST01204	M79055	HHCPL189	2258	EST01316	M79168	HHCPL152
2127	EST01205	M79056	HHCPL191	2259	EST01317	M79169	HHCPL154
2128	EST01206	M79057	HHCPL193	2260	EST01318	M79170	HHCPL156
2129	EST01207	M79058	HHCPL195	2261	EST01319	M79171	HHCPL158
2130	EST01208	M79059	HHCPL197	2262	EST01320	M79172	HHCPL160
2131	EST01209	M79060	HHCPL199	2263	EST01321	M79173	HHCPL162
2132	EST01210	M79061	HHCPL201	2264	EST01322	M79174	HHCPL164
2133	EST01211		HHCPL203	2265	EST01323	M79175	HHCPL166
2134	EST01212		HHCPL205	2266	EST01324	M79176	HHCPL168
2135	EST01213		HHCPL207	2267	EST01325	M79177	HHCPL170
2136	EST01214		HHCPL209	2268	EST01326	M79178	HHCPL172
2137	EST01215		HHCPL211	2269	EST01327	M79179	HHCPL174
2138	EST01216		HHCPL213	2270	EST01328	M79180	HHCPL176
2139	EST01217		HHCPL215	2271	EST01329	M79181	HHCPL178
2140	EST01218		HHCPL217	2272	EST01330	M79182	HHCPL180
2141	EST01219		HHCPL219	2273	EST01331	M79183	HHCPL182
2142	EST01220		HHCPL221	2274	EST01332	M79184	HHCPL184
2143	EST01221		HHCPL223	2275	EST01333	M79185	HHCPL186
2144	EST01222		HHCPL225	2276	EST01334	M79186	HHCPL188
2145	EST01223		HHCPL227	2277	EST01335	M79187	HHCPL190
2146	EST01224		HHCPL229	2278	EST01336	M79188	HHCPL192
2147	EST01225		HHCPL231	2279	EST01337	M79189	HHCPL194
2148	EST01226		HHCPL233	2280	EST01338	M79190	HHCPL196
2149	EST01227		HHCPL235	2281	EST01339	M79191	HHCPL198
2150	EST01228		HHCPL237	2282	EST01340	M79192	HHCPL200
2151	EST01229		HHCPL239	2283	EST01341	M79193	HHCPL202
2152	EST01230		HHCPL241	2284	EST01342	M79194	HHCPL204
2153	EST01231		HHCPL243	2285	EST01343	M79195	HHCPL206
2154	EST01232		HHCPL245	2286	EST01344	M79196	HHCPL208
2155	EST01233		HHCPL247	2287	EST01345	M79197	HHCPL210
2156	EST01234		HHCPL249	2288	EST01346	M79198	HHCPL212
2157	EST01235		HHCPL251	2289	EST01347	M79199	HHCPL214
2158	EST01236		HHCPL253	2290	EST01348	M79200	HHCPL216
2159	EST01237		HHCPL255	2291	EST01349	M79201	HHCPL218
2160	EST01238		HHCPL257	2292	EST01350	M79202	HHCPL220
2161	EST01239		HHCPL259	2293	EST01351	M79203	HHCPL222
2162	EST01240		HHCPL261	2294	EST01352	M79204	HHCPL224
2163	EST01241		HHCPL263	2295	EST01353	M79205	HHCPL226
2164	EST01242		HHCPL265	2296	EST01354	M79206	HHCPL228
2165	EST01243		HHCPL267	2297	EST01355	M79207	HHCPL230
2166	EST01244		HHCPL269	2298	EST01356	M79208	HHCPL232
2167	EST01245		HHCPL271	2299	EST01357	M79209	HHCPL234
2168	EST01246		HHCPL273	2300	EST01358	M79210	HHCPL236
2169	EST01247		HHCPL275	2301	EST01359	M79211	HHCPL238
2170	EST01248		HHCPL277	2302	EST01360	M79212	HHCPL240
2171	EST01249		HHCPL279	2303	EST01361	M79213	HHCPL242
2172	EST01250		HHCPL281	2304	EST01362	M79214	HHCPL244
2173	EST01251		HHCPL283	2305	EST01363	M79215	HHCPL246
2174	EST01252		HHCPL285	2306	EST01364	M79216	HHCPL248
2175	EST01253		HHCPL287	2307	EST01365	M79217	HHCPL250
2176	EST01254		HHCPL289	2308	EST01366	M79218	HHCPL252
2177	EST01255		HHCPL291	2309	EST01367	M79219	HHCPL254
2178	EST01256		HHCPL293	2310	EST01368	M79220	HHCPL256
2179	EST01257		HHCPL295	2311	EST01369	M79221	HHCPL258
2180	EST01258		HHCPL297	2312	EST01370	M79222	HHCPL260
2181	EST01259		HHCPL299	2313	EST01371	M79223	HHCPL262
2182	EST01260		HHCPL301	2314	EST01372	M79224	HHCPL264
2183	EST01261		HHCPL303	2315	EST01373	M79225	HHCPL266
2184	EST01262		HHCPL305	2316	EST01374	M79226	HHCPL268
2185	EST01263		HHCPL307	2317	EST01375	M79227	HHCPL270
2186	EST01264		HHCPL309	2318	EST01376	M79228	HHCPL272
2187	EST01265		HHCPL311	2319	EST01377	M79229	HHCPL274
2188	EST01266		HHCPL313	2320	EST01378	M79230	HHCPL276
2189	EST01267		HHCPL315	2321	EST01379	M79231	HHCPL278
2190	EST01268		HHCPL317	2322	EST01380	M79232	HHCPL280
2191	EST01269		HHCPL319	2323	EST01381	M79233	HHCPL282
2192	EST01270		HHCPL321	2324	EST01382	M79234	HHCPL284
2193	EST01271		HHCPL323	2325	EST01383	M79235	HHCPL286
2194	EST01272		HHCPL325	2326	EST01384	M79236	HHCPL288
2195	EST01273		HHCPL327	2327	EST01385	M79237	HHCPL290
2196	EST01274		HHCPL329	2328	EST01386	M79238	HHCPL292
2197	EST01275		HHCPL331	2329	EST01387	M79239	HHCPL294
2198	EST01276		HHCPL333	2330	EST01388	M79240	HHCPL296
2199	EST01277		HHCPL335	2331	EST01389	M79241	HHCPL298
2200	EST01278		HHCPL337	2332	EST01390	M79242	HHCPL300
2201	EST01279		HHCPL339	2333	EST01391	M79243	HHCPL302

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SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone
2259	EST01304	M79156	HHCN52	2326	EST01791	M78198	HHCN06	2392	EST01416	M79261	HRBAA06
2260	EST01305	M79157	HHCN54	2327	EST01354	M79206	HHCN07	2393	EST01417	M79262	HRBAA07
2261	EST01306	M79162	HHCN60	2328	EST01355	M79207	HHCN12	2394	EST01418	M79263	HRBAA20
2262	EST01307	M79158	HHCN63	2329	EST01792	M78199	HHCN13	2395	EST01419	M79264	HRBAA26
2263	EST01308	M79159	HHCN64	2330	EST01793	M78200	HHCN16	2396	EST01420	M79265	HRBAA27
2264	EST01309	M79160	HHCN65	2331	EST01794	M78201	HHCN22	2397	EST01421	M79266	HRBAA04
2265	EST01310	M79161	HHCN66	2332	EST01357	M78202	HHCN23	2398	EST01422	M79267	HRBAA06
2266	EST01311	M79162	HHCN67	2333	EST01358	M78209	HHCN29	2399	EST01423	M79268	HRBAA08
2267	EST01312	M79163	HHCN70	2334	EST01359	M79210	HHCN30	2400	EST01424	M78227	HRBAA11
2268	EST01313	M79164	HHCN76	2335	EST01360	M79211	HHCN36	2401	EST01425	M79269	HRBAA14
2269	EST01314	M79165	HHCN96	2336	EST01361	M79212	HHCN68	2402	EST01426	M78229	HRBAA21
2270	EST01315	M79166	HHCN003	2337	EST02706	M86174	HHCN70	2403	EST01427	M79270	HRBAA22
2271	EST01316	M79167	HHCN005	2338	EST01802	M78209	HHCN75	2404	EST01428	M79271	HRBAA23
2272	EST01317	M86172	HHCN007	2339	EST01364	M79216	HHCN88	2405	EST01429	M79272	HRBAA24
2273	EST01318	M79168	HHCN008	2340	EST01365	M79217	HHCN89	2406	EST02713	M86178	HRHAA22
2274	EST01319	M79169	HHCN010	2341	EST01366	M79218	HHCN90	2407	EST02714	M86179	HRHAA23
2275	EST01320	M79170	HHCN019	2342	EST01367	M79219	HHCN91	2408	EST00244	M62182	HRHAA23
2276	EST01321	M79171	HHCN021	2343	EST01368	M79220	HHCN94	2409	EST00273	M62211	HFBFA76
2277	EST01322	M79172	HHCN022	2344	EST01370	M79221	HHCN95				
2278	EST01323	M79173	HHCN024	2345	EST01371	M79222	HHCN95				
2279	EST01324	M79174	HHCN025	2346	EST01372	M79223	HHCN11				
2280	EST01325	M79175	HHCN031	2347	EST01373	M79224	HHCN13				
2281	EST01326	M79176	HHCN037	2348	EST01374	M79225	HHCN13				
2282	EST01327	M79177	HHCN045	2349	EST01806	M79226	HHCN16				
2283	EST01328	M79178	HHCN051	2350	EST01375	M79227	HHCN19				
2284	EST01329	M79179	HHCN057	2351	EST01376	M79228	HHCN22				
2285	EST01330	M79180	HHCN074	2352	EST01377	M79229	HHCN28				
2286	EST01331	M79181	HHCN076	2353	EST01378	M79230	HHCN49				
2287	EST01332	M79182	HHCN081	2354	EST01379	M79231	HHCN51				
2288	EST01333	M79183	HHCN082	2355	EST01380	M79232	HHCN52				
2289	EST01334	M79184	HHCN083	2356	EST01381	M79233	HHCN53				
2290	EST01335	M79185	HHCN087	2357	EST01382	M79234	HHCN53				
2291	EST01336	M79186	HHCN088	2358	EST01383	M79235	HHCN66				
2292	EST01337	M79187	HHCN092	2359	EST01384	M79236	HHCN68				
2293	EST01338	M79188	HHCN093	2360	EST01385	M79237	HHCN75				
2294	EST01339	M79189	HHCN094	2361	EST01386	M79238	HHCN78				
2295	EST01340	M79190	HHCN095	2362	EST01387	M79239	HHCN86				
2296	EST01341	M79191	HHCN096	2363	EST01388	M79240	HHCN86				
2297	EST01342	M79192	HHCN097	2364	EST01389	M79241	HHCN90				
2298	EST01343	M79193	HHCN098	2365	EST01390	M79242	HHCN96				
2299	EST01344	M79194	HHCN099	2366	EST01391	M79243	HHCN96				
2300	EST01345	M79195	HHCN100	2367	EST01392	M79244	HHCN96				
2301	EST01346	M79196	HHCN101	2368	EST01393	M79245	HHCN96				
2302	EST01347	M79197	HHCN102	2369	EST01394	M79246	HHCN96				
2303	EST01348	M79198	HHCN103	2370	EST01395	M79247	HHCN96				
2304	EST01349	M79199	HHCN104	2371	EST01396	M79248	HHCN96				
2305	EST01350	M79200	HHCN105	2372	EST01397	M79249	HHCN96				
2306	EST01351	M79201	HHCN106	2373	EST01398	M79250	HHCN96				
2307	EST01352	M79202	HHCN107	2374	EST01399	M79251	HHCN96				
2308	EST01353	M79203	HHCN108	2375	EST01400	M79252	HHCN96				
2309	EST01354	M79204	HHCN109	2376	EST01401	M79253	HHCN96				
2310	EST01355	M79205	HHCN110	2377	EST01402	M79254	HHCN96				
2311	EST01356	M79206	HHCN111	2378	EST01403	M79255	HHCN96				
2312	EST01357	M79207	HHCN112	2379	EST01404	M79256	HHCN96				
2313	EST01358	M79208	HHCN113	2380	EST01405	M79257	HHCN96				
2314	EST01359	M79209	HHCN114	2381	EST01406	M79258	HHCN96				
2315	EST01360	M79210	HHCN115	2382	EST01407	M86177	HHCN96				
2316	EST01361	M79211	HHCN116	2383	EST01408	M79259	HHCN96				
2317	EST01362	M79212	HHCN117	2384	EST01409	M86178	HHCN96				
2318	EST01363	M79213	HHCN118	2385	EST01410	M79260	HHCN96				
2319	EST01364	M79214	HHCN119	2386	EST01411						
2320	EST01365	M79215	HHCN120	2387	EST01412						
2321	EST01366	M79216	HHCN121	2388	EST01413						
2322	EST01367	M79217	HHCN122	2389	EST01414						
2323	EST01368	M79218	HHCN123	2390	EST01415						
2324	EST01369	M79219	HHCN124	2391							

SUBSTITUTE SHEET

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NOTE REGARDING SEQUENCE LISTINGS: The listings of SEQ ID NOS: 1-2421 are in numerical order. However, an occasional number (for example, SEQ ID NO: 44) is not found in this list. In all, 9 SEQ ID NOS are not used. Nevertheless, the  
5 convention "1-2421" is used, for example, to refer to all the SEQ ID NOS in the following list, while "1-315" is used, for example, to refer to all the listed sequences falling between SEQ ID NO 1 and SEQ ID NO 315.

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## SEQUENCE LISTING

## (1) GENERAL INFORMATION:

- (i) APPLICANT: Venter, J. Craig  
Adams, Mark D.  
Moreno, Ruben F.

(ii) TITLE OF INVENTION: Sequences Characteristic of Human Gene  
Transcription Product

(iii) NUMBER OF SEQUENCES: 2412 (1-2421, with 9 SEQ ID NOS unused.)

## (iv) CORRESPONDENCE ADDRESS:

- (A) ADDRESSEE: Knobbe, Martens, Olson, and Bear  
(B) STREET: 620 Newport Center Dr. Sixteenth Floor  
(C) CITY: Newport Beach  
(D) STATE: CA  
(E) COUNTRY: USA  
(F) ZIP: 92660

## (v) COMPUTER READABLE FORM:

- (A) MEDIUM TYPE: Floppy disk  
(B) COMPUTER: IBM PC compatible  
(C) OPERATING SYSTEM: PC-DOS/MS-DOS  
(D) SOFTWARE: PatentIn Release #1.0, Version #1.25

## (vi) CURRENT APPLICATION DATA:

- (A) APPLICATION NUMBER: 07/837,195  
(B) FILING DATE: 12-FEB-1992

## (vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: US 07/716,831  
(B) FILING DATE: 20-JUN-1991

## (viii) ATTORNEY/AGENT INFORMATION:

- (A) NAME: Israelsen, Ned A.  
(B) REGISTRATION NUMBER: 29,655  
(C) REFERENCE/DOCKET NUMBER: NIH004.004CP1

## (ix) TELECOMMUNICATION INFORMATION:

- (A) TELEPHONE: 619-235-8550  
(B) TELEFAX: 619-235-0176

SEQ ID NO:1: (Length of Sequence = 362 Nucleotides)

CTTCCCTTTT GTTCCCTCA GTGTCCTTT TAATTGCTTC CTTCCATTT CTTAGCAGC ATCTAGTIG ATTCTTGGG  
TTATCAGAGG AGCAAAACA TTAAAGTGC AATAATGCT CATTGTCTCC CTGGGATTTC TAAACAGAAA AAATGAAGAA

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AGAGGCAGAG AAGAGCTTCA CAAGGTGTGT GCCAGCTCTG CATCATTTCC AGCTGCTCAA CCACCATTTT TCCCATTTTA  
GGTCCCCAAA AGTAGGAGGT GGGGCCTCAC AGAGCTGCTG TGGGCTTTGG GTATCAAAAG CTGCAGCCAC CATATGGGGC  
ACTCCTGGCT GGTGTACAGG GTGGGCATTG CCCAGGTCTT TT

SEQ ID NO:2: (Length of Sequence = 214 Nucleotides)

GTTTINCTTT TTTCTTAGCT TCATTTCTCT TAAAAACAA GGAACAAGAA AACATTGCAC CAGCGTTCTA AGCCTCAAAC  
AAAANACAAA ACAATCCCC CTGCGAAGAA CAATAAATT TACATCTCTT TGGCAACAAT AACTTAAAAT CACCCAACCT  
CCATTGCTC CAACCACAGC AGTTAGTTAG TTACAAAAT ATTCCNTGTG CTGC

SEQ ID NO:3: (Length of Sequence = 344 Nucleotides)

ATTAAATAGGA AAGATGATTG TATAGATGGT GGGCTATTAA CTCAGATCAG GATGAGAATC GGGAGTGCCT TTACATGTGT  
GGTACCCAAA TGGGTGGTTG GATATAAGAG TAACAAAAGG ACTGAAAGGG TTAATAAAGA AAGAAAAAAA AAAAAGCTCC  
TGGTTGGGAG GGTGTAAAGT ATCGAGTGT TTTCCAAACC ATTCTCTCTC TGCTCACCTA CCCCTAGGTG ATTAAAGGAG  
ATAACTTTTA AAAAAGAAAG AATTGGCTCA AAGGTACTGT AAATTCTAGG ATTATATACC TTTATATAGG TTCATTCCCT  
GATCCCTGTA TTATCAAGGC ACAG

SEQ ID NO:4: (Length of Sequence = 352 Nucleotides)

GACCGGTAA CCGAGGCGGC AAGGAGGCCA GGTAGTCCCG GCACCTCTCA CTCGTCAGAG ACCAGCGGCT TCGTGGGAGG  
CCTGTGGGTC ACACGTAGGG GCTAGAGCCA GCCTGCATCC TGCCACCGG GCTCCACTTG GAGATCAGCA GGAGGGCCAG  
TGTGGGACCC CTGCTGCCAC CTCTCTGGG CCTGKTCTT TCTGGAAAT TAAGAAGGTG TGCTCCAGAG CCAAGAGGAG  
CAATAAGAAA CCTCGTGTGC CAGCTCTTA AGGGTKGCAG TGCAAGACCC CA

SEQ ID NO:5: (Length of Sequence = 562 Nucleotides)

ATACCTTAC ATATATATTC ACAGAAAATC ATATTGCATA TACTCTTCT CCACATCATA AAAATGGGTG TTGGGCTCTC  
TAGGACACAA GGAAGCAGG CCAATTTCT CATATTTCA GGAATAACT GAGTGCCCG AAGGTGTAAT AGGAACCTTT  
TACTAACCTC ATCTGACTTC ATCTCACAC CAGCATTTTG TGTTAAGGA AACTGGCCGA GAGTGGTTAA GAAATATATC  
CAAAGACGTA TAGTTCCAAA TGAACACGG ATCTTTTAT TTAATTTCA ATCATCTTC CATATATCA GCCAATGATG  
GAGCAGAAAG CTGGTCCAG CAATCCAGA ATAGATCTT CTAGGCACCC GTTCAGTGTG AGGAGGGGGA AGTGGCCTTG  
CCAAGGGGCC AGTGAGCTCA ATTAGGGTA ACGCTGCTTC TTAGCCTACC CCAGGGGCA CCGCACTTAG GTTGTMTTGT  
GCCAGCTTT GGCAGGAAGC ATTCTCTCTT TCAAAGATTN NAGCCTTGC GTCATATATC GGGTGTAAATA GGGTCTTTT  
TT

SEQ ID NO:6: (Length of Sequence = 359 Nucleotides)

ACATGTCTC CCTCTTTCAA TTTTAGCAGT AATGTGATCC TCAAAAATGC ATTAATACTA GTTGAAGTAA ATAAACGGAA  
GAGCTCCAAA ATGCTGCAT TAAATGCATT TTTCCACACT AATGCCAATC ATCCAAAGCT ATTTTCAACA AGTCAGGTAT  
TCAAAGCTAT TCACACCACT TGAAGAGTA ATTACCATTT ACTGAAGCAC TTATCTGTCC TACACTGATG GGAGTAAATG  
CTTCTCATAG GTATCTCAT GTACATTATG CCATTTNAC TTAATATGAT CACAATTNAG TGCTATAGGT TTTTGGGTTA  
ATGTTTTCCC NGGGGGAGTT GTTAAAAACA TGGCATTTT

SEQ ID NO:7: (Length of Sequence = 218 Nucleotides)



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AACTTGCAAC ATAAATACTA GAAAAAGAGA AAATATCATC AAAATACAAA TAACTGTTAG AAATCATTCG TCAAAAGAAR  
 AACCTGGCAA TGCATGATTA CGAAATGCAA AAGAMGATAC AGTTGCTCTC TGTATATGOG CTTTCCACAT CCACAGATTG  
 AAACAACGTG GGATAAAAAA GGATTTTTCA ATGCCATTAA ACAVCAATGC AACAGTAA

SEQ ID NO:8: (Length of Sequence = 345 Nucleotides)

CTACAATAGA AGGCAACTA TGTCCTCCT TTGCTCAGAA ACTTTTAATA TCTKCTATT TCCCCATGTA AAAGCCAATC  
 CTCAACCACA GGTAGAAGG GCTATCCATT TCTAGCTACA CATCTCTCA GTCAGTCCC CCAGCCCCAG TACTTGGGGA  
 CTTTGCCCTT GCAGTTCCCT GTGCCAGCAA ACTCTTCTC CAGATGTCCA CATGACTCAC CCNCTCCTT CAGGGGTCTT  
 CTCAAATGTC ACTTTACCAG AGGTGGCTC CCGACCATC CTGTATAAAT AGCATCACC TACCTCCTAT CTCTCTCTC  
 AATGTCTCAG GAATTGATA TCAAG

SEQ ID NO:9: (Length of Sequence = 189 Nucleotides)

GTGAACAGAC TAAGGCCTTT NTGGAGGCC AGAATAAGAT TACTGTGCCA TTTCTTGAGC AGTGTCCCAT CAGAGGTTTA  
 TACAAAGAGA GAATGACTGA ACTATATGAT TATCCANGT ATAGTTGCCA CTTCAAGAAA GGAGAACGGT GTTTTTTATT  
 TTACAATACA GNTTTNAGA ACCACCGG

SEQ ID NO:10: (Length of Sequence = 267 Nucleotides)

CTCCCTTCG CACCTGCTGG ACGCGAGGG CTAATACGAT GCCATGGGTG TCTGRTTTT TTATTTCTCA GACAGGACTG  
 CTCTGTATNT GTCTTTGGAT TCTACGTAGA TTTATATTG TAAATATTA CATTGTCTAT GACCAGAAGA AATGTCAITA  
 TCGTAAAATT TAGATCTGG NGCTATATA TGAAGNAAT ACTAACTACT AACTGTTATA ACAWCAAAT GTGGGNTGTA  
 TATCTACARG CCNGAGCCGA CTGTCA

SEQ ID NO:11: (Length of Sequence = 247 Nucleotides)

CTCATAAAGC CAGGTGATA AAATGGTAG TTTCATGTA TCTACAAGC TAAGTCAAA ATTCCATGCA TGTGCTGTA  
 AAAGACCAT NATGKCCIM ACTGTACTTA CTCCCATTT ATTAGCAITC ATTCTGGTCA CCAGCTCTAG TTCTCTGCT  
 TAGCGAATCT CGCTTGCTT CAAGATGTA TTCAAATGTC ACATTTTGTG GGAAGCCTG CCTTTTTTGA CACGGTCTCC  
 CTGCCAC

SEQ ID NO:12: (Length of Sequence = 280 Nucleotides)

AAGGCGAGAG GCTTCTGGAG AAACCCACC CACCAACGTC TTGATCTTG ACTTTTAVCC TCCAGAGCTA TGAGAAAACA  
 AVTTCTGTG VATVGVGCC ACTCAGCCTG TGGATACTGG CAGCCCTAGC AAATCATAAC ACACATACAT TTAAACTCG  
 GTTTAATCCT GTGCCATTG ACTTATGGIT CAGTTTATA ATAGTCTAG TCTTATGVCC ACTGTAAAG TTCACCAGGA  
 CATAGGSCAT TGGGGAAGG GGCCTGTAC TCTTGATTA

SEQ ID NO:13: (Length of Sequence = 339 Nucleotides)

VCTVCTVCC AACTTCATT AGATATTGAC TCTGGTGATG GGAACATTAA ATACATTCTC TCAGGGGAAG GAGCTGGAAC  
 CATTTTIVTR ATTGATGACA AATCAGGGAA CATTATGCC ACCAAGAGT TGGATOGAGA AGAGAGAGCC CAGTACAGT  
 TGATGGCTCA GCGGTGGAC AGGGACACCA ATGGCCACT GGAGCCACG TCGGAATCA TTKTCAAGK CCAGGACATT  
 AATGACATC CTCCGAGGT TTCTGCAG AGACCTATCA TGCCAATGT GCCSTGTARA GGTCCAATKT TGGGTGSGT  
 ACGGTAGTGG GGAGGCCTG

SEQ ID NO:14: (Length of Sequence = 342 Nucleotides)

114

GGGVGCAAAG TAGCAGATTC TAGTAAAGGA CCAGATGAGG CAAAAATTAA GGCACCTCTG GAAAGAACAG GCTACACACT  
 TGATGTGACC ACTGGACAGA GGAAGTATGG AGGACCACCT CCAGATTCCG TTATYTCAGG TCAGCAGCCT TCTGTGGCA  
 CTGAGATATT TGTGGGAAAG ATCCCAAGAG ATCTATTTTG AGGATGAACT TGTTCATTA TTTGAGAAAG CTTGGACCTA  
 TATGGGATCC TTGCTCTAAT GATGGATCCA CTCACGTGTC TCAATAGAGG TTAATGCGTT TGTCACCTTT TTGTACAAA  
 GGAGCARGCT CAAGGAGGGC TG

SEQ ID NO:15: (Length of Sequence = 354 Nucleotides)

ATGTTGATGC TGAAATTVAA GATCCACCAA TTCCAGAAAA ACCATGGAAG GTTCATGTGA AATGGATTTT GGACACTGAT  
 ATTTTCAATG AATGGATGAA TGAGGAGGAT TATRAGGTGG ATGAAAATAG GAAGCCTGTR AGITTYCGTC AGCGGATTTT  
 AACCAAGAAT GAAGAGCCAG TCAGAAGTCC AGAAGAAGA GATAGAAAAG CATCASCIAA TGCTCGAAAG AGGAAACATT  
 CGCCTTCGCC TCCCCCTCCG ACACCAACAG AWTACGGGA AGAAGAGTGG GAAGAAAGGC CAAGCTAGCC TTTTATGGGG  
 AAGCCGCAAG AAGTCCAGAA AGAGGGWGG TTGA

SEQ ID NO:16: (Length of Sequence = 348 Nucleotides)

CAGGCAAGTT TCTTCCAGGA TGAGAAATCA GTGGAAAGTG AGGGCCAGCC AACAGCCACC ACCAACCACC CAACACGCGA  
 GCGAGACCAT CTTAAAGAG CCCAGCCAA GCTGACCATG GGTCTGACCC CAACTGAAG AAATGCCAG CCCAGCCAA  
 CCCAAATTGC TAACCTGTAT TATAAGCAAG TACAATGGTC CTTACCTTAA GCCACTAAGT TTTGGGATGC TTGTGTACAC  
 AGCTATAGAT AAGCTGATAC AGGAATGTC AGAWTCCATG ATGAGAGACC GAGCCTTCA KTCTGTGAGA GGYACCTTVG  
 GTTGGCAAAA CTTCAAAAAG AGGGACCT

SEQ ID NO:17: (Length of Sequence = 415 Nucleotides)

AGCAYGGGCT GGGGGGCGG GAGTTAGGGC TGGGGCTTGT TTTACGCTCT GCCCCCACA CCCCCTCCTC TTCGTCTCTG  
 ATTAAGCCCA AGGGTTGGTG GACTTAACTT TCAGCCCATC TCTAAGGGTT TCACAGACTG GATCTTTCTA AACTTTATTG  
 GGTACCTGCT TCCCCTTTTC CTTGGTAGTT TTCATCTACA AAAAGTCAA ACCTGATCGA AATAGAAATA AGATCATCAA  
 ATTGGACCAT TCTCTTAGCG TTCGAGTGTG CCGGCCAGAC TGGCATTGAG TACAGCTGA GATCCAAACA CATCACACTG  
 GCCTCAGGTC ACCAATCGC CACTCAGGSC ACAAGGCTG CCCTTGTGTT CACAAGGCTT TCCTTAATGT CGTCGGTGCC  
 CAGGTGAACC ACAAG

SEQ ID NO:18: (Length of Sequence = 356 Nucleotides)

GIATGTATGT CTGTAGGTAT TTCTATACTT AACCATCTGT GTCCCAATTA AGCTAAACAT GATTCATTCT GATGCCAACC  
 CCCATCCATC ATGCCATGGA TCGCTCTAGA CTTCTTCCCT TGTAACCTCC CACTCAAACA GTGAGAAACC TTGCCCAGT  
 ATGTTTGGGA GTAACCTCAC TGGGAGTTTG CAGTCCACT AGATGAATGC CAACCCATTT GTTCATTAA AAGGACTTTT  
 GGAACCATAG AGCAATGGCT GGGCTGGGTC TVGCAGTTC ATCTTGACTG AAACAATTGG CCATGAAGGC ACTTGCCAAG  
 GAACTCTAG GGGCCACAAG GTTCTGGGT GCTTGC

SEQ ID NO:19: (Length of Sequence = 339 Nucleotides)

CATGCTTCCA TTTTTTTAG TTTTAAACCA CCAACCAAT ATTTTCCTT TAAATTTTAA TCTTATAATA TAGAAATCTT  
 ATGTAATGA AATTTTGTCA TGTTCAAAT AAAGAGAACT GAAGTAGAAA ATAGAAATGC CAGTAAACAA CATAATGTTT  
 AATTACAAAC TTACATTAGG GGTTTGGGGG VATGCTAAT ATATATTGAG AATATACATT AGAAGCTTTC AAAATGGGCT  
 CTTCTAATGA GGTCACTACT GAACATAATT GTTCCCTCTT CTGTTAATA GAATAGGTTT AAATGACTAG TCCAAATGGA  
 ATTATTGCCT TCTKGTTAA

SEQ ID NO:20: (Length of Sequence = 437 Nucleotides)

AGAACAAGGG AACTCAGCAG CCCCTCCCTT CCCATCAGCT GTTCTGAGA GATGCAATAT AGTAGTCATC GACATCATCC  
TTATCAACAG CATCATCACT CAGACAGTGG TGAAAGTCTT TCCTCACAAG GAAAAACAAA GATAAAGAAA TACATGAGCA  
TTAATCAGAA ATTTTCAAAG CTGGAATTCT AATGATATGC ATTATCATTA GACATTCAA TGCTATACAT CTTCTGATGA  
AGCCTCCTTG ACAGCAGCTA CACTTATTTT ACATTAGAAT GCCTAGAGAA ATCCTGACTG CCCAGCTTGG TCATGGGACC  
TTCCCCACTC TCCCTTTGGA GGAATGAAAA GATGTGGCGG CTTTCTACTT TTGCTACTGA GCTGGGGTAT ATGGCTAGGT  
CCACTTTCTA AGGGGCTTGG AAGGGTTATT CCATCTG

SEQ ID NO:21: (Length of Sequence = 385 Nucleotides)

GTTTGATTG CTTTTTTTTT AGAGTTTAC ATCAGTGTTT TCAGGAATA TTGGTCTTC ATTTTCTTTT CTGGAATAT  
TTCTAGTIT TACTTTGTCA GAGTAAATTC TGGCTTACA GAATTATTTG TAGTCTCTCC TGTCTTGGTT TATTCATGCT  
GCTATAACAA AATACCACAG ACAAGGTGGT AATAAATAAC ACAATTTTAT TTTTCCAGT TCTGGAGGCT AGGAGTTCAA  
GAAGCTGGCA AGTTCAATGT CTGGTGAGAC CCATTCCTTC ATAGGTGGCA CCATCTAGGG GTCCTTACAT GRCAAAGAGA  
TGAAGGGCC AAAAGATGG TGACCTATTG TGAGGCCCTT TTTAAAGGGC CTTVAAATCC CAGTC

SEQ ID NO:22: (Length of Sequence = 374 Nucleotides)

ACCTTCATGG TCATGAAGGC CATGCAGTCT CTCAAGTCCC GAGGCTACGT GAAGGAACAG TTTGCTGGA GACATTTCTA  
CTGGTACCTT ACCAATGAGG GTATCCAGTA TCTCCGTGAT TACCTTCATC TGCCCCCGGA GATTGTGCCT GCCACCCTAC  
GCGTAGCCG TCAGAGACT GGCAGGCCTC GGCCTAAAGG TCTGGGAGGG TGAGCGACCT GCGAGACTCA CAAGAGGGGA  
AGCTGACAAG AGATACCTAC AAGACGGGAG TRCCTGTGCC ACCTGGTGCC GACAAGAAAG CCGAGGCTTG GGTCTGGGTC  
AGCAACCGAA TTCCAGTTTA GAGGCGGATT TVGGTGTGK AGGTGTGAG CCAC

SEQ ID NO:23: (Length of Sequence = 322 Nucleotides)

CAAAACGTGA TCACCACAGC TCCGTTCTG CAGTGACACT TAACATCTC AGCATCTTCA TGAATTCTGA ATAATTACT  
GATOGTAAAG TCTAAAAGTA TCAATTTTCA GTGAGCAGTT TTAATCAGA AAATAGTCAA TAGTAAATCA TGACTCTTCA  
GGGTATTTCC TTCAGTCTT CTGAAGAGTT TCCAGAACA TTCTTGIGAA AAGGAATGCC TCCCAACAAT GGAGAGCAAC  
AATAGCAACA GGCATCTGAA TCAGCCTGGC CTCTGAAAAC AGACCANAGA GGAGTTTATC TGTCTCTTCC AGTGGAGGAA  
GG

SEQ ID NO:24: (Length of Sequence = 113 Nucleotides)

CCTGAAATCG GAGTCTTTTG GACTGACTCC AAATTCAATG GGTGGCAGAG GCAGCAAGGA GTCCAGTGA ATCTCCACCC  
CGTTAACAGG CGGACGACA GCCCCTTGCA GCC

SEQ ID NO:25: (Length of Sequence = 399 Nucleotides)

GGAAAGAATG AAGGAAAAAC AAGACAAAAT CTACTTCATG GCTGGGTCCA GCAGAAAAGA GCAGACGCTG GCCTCAGACA  
CAGACAGCAG TCTTGATGCC TCGACGGGAC CCCTTGAAGG CTGTGATGA TAGGTTAGAA ATAGCAAACC TGTGACATT  
GAAGGAACTC TCACCTCGT GGGCCTGAAA TGCTTGGGAG TTGATGGAAC CAAATAGAAA AACTCCATGT TCTGCATGTA  
AGAAACACAA TGCCTTGCC TACTCAGACC TGATAGGATT GCCTGCTTAG ATGATAAAAT GAGGCAGAAT ATGCTTGAA  
GAAAAAANTT GCAAGCCACA CTCTINGAGA TTTTGTTCAA GATCCATTTC AGGGTGAGCA GTTAGAGTAG GTTGAATTT

SEQ ID NO:26: (Length of Sequence = 350 Nucleotides)

116

GATGGTATA CGGGCAACAA TGGATTGATA GCCTTAATAT AGAAATAGTT CCAGCAGGCC AGATGCAGTG GCTCAATTCT  
 GTAAACCCAG TGCTCTGCAC AGCTAGGAAG GAAGATCACT TGGGCCAGG AGTTCAAGGC TCCAGTGAGC CATGATCACG  
 CCCTKCTC CAGCCTGGGT GACAGAGTNA GGCCCTGTCT CTAAAAAATG AAATAGCTCC ATCAAGTCAA TAATTAAAAG  
 TTCAACAGCC CAACAGANCA AAAATTGTAA ATGANACAA ATTAGAAAAT GTACAAATTA AATATTATG ACCATAACC  
 CTATAAGGGA AAGTTAACC TCTCTAGTAT TTTT

SEQ ID NO:27: (Length of Sequence = 322 Nucleotides)

AAAACGTGAT CACCACAGCT CCGTTCCTGC AGTGACACTT AACATACTCA GCATCTTCAT GAATTCGTAA TAATTTACTG  
 ATCGTAAAGT CTAAAGTAT CAATTTGAGG TGAGCAGTTT TAAATCAGAA AATAGTCAAT AGTTAATCAT GACTCTTCAG  
 GGTATTTCTT TCACGTCTC TGAAGAGTTT CCCAGAACAT TCTGTGAAA AGGAATGCCT CCCAACAATG GAGGAGCAAC  
 AATAGCAACA GGCATCTGAA TCAGCCTGGG CTCTGAAAAC AGACCAAAGA GNGTTTTTC TGCTTTCTTC CAGTGAGGAA  
 GG

SEQ ID NO:28: (Length of Sequence = 287 Nucleotides)

TATTTTTATT AAAGGACCAC CCTGGCTGTM GTGAGATGAA TGGATTCAA CAGGGCAAGA GTGGATACAG MGAGATAAGT  
 TAGGAAGCTG GTATAGAAAT CTGGATGAGA TATGGTGGCT TGATGATAC TAGCAGTGAG TATGGGAAGT AGGTGGATTA  
 CTTTACACTT TTTTAGATCA GTCKATTCTT GATGTCTTGA AGACAAATTA ATCTCATATA TAACTCTAAA CAACATATTT  
 ATATTTTCATG TAAATAAGGA TAATGCTGAC CAAATATTAG CACCTTT

SEQ ID NO:29: (Length of Sequence = 282 Nucleotides)

CAGGGCAGGG AAGCCTGGAA GCAAAGGAGG ACCTGGCTCC TGACTCTCAG AGAGGATAGG CTGGGATCCC TGGGGCAGGC  
 CIGTTCCTTG GCTGGCCAAT TTAGTCTTTC AATTGTCTAA GGGCTCTCCA TTGCTGCCC TTGCTCTTT CTAGCCTGTT  
 ATTTCTAGGC TCTCTGAAT AAATCTCAGG TTTCTACTG TCATGCCTTT AGTTCAAAA TGAGAATCTG CCTACAGTG  
 CTGGCCTCTT TCCGGCCTGA AAGCCAGCAC CTTKGACCC GG

SEQ ID NO:30: (Length of Sequence = 345 Nucleotides)

GAAGCTGGTG AATACATTTC AAGACACAAC ATGGCAGCTG TGCTAGCTC TATGGTACAA CATGGTACTA TGACACATAT  
 AATGGGTGTC CAGATGGGGA AGGCAGCTTC TCTGCACTG AGCTGAGATC TCAAAATAGA CAATGTCAAG ATGGAATGAG  
 AAGGGAAAAA CAGCATGTGT AGACAGGTAG TGACAAAAGG CTAATTAAGG ACTGAAAGAA ACCAGTGGCC AACAGGGGAA  
 TCTACGGGTG ATAAAGATAA GACGGTGAGA GAGATAAGGC TAGATTGTAT AAGCCTTGAC AGACCATAGC AAGATAAGCA  
 AGGACCTGTG TCTGTTAAC CATTT

SEQ ID NO:31: (Length of Sequence = 343 Nucleotides)

ATAAAATGG TCTGGGTACC CTAAGGTGTT TGCKTTGATA GAAAATTGAC ACCCCAAACT AAGTGTCTA CTTAGCTTCT  
 ACAATAGTAA TTCTAGACC TTAGATTAGT CATTACATTT TTATTTAAGG TACTATGTA CTTTCATGAC TACAAAATGA  
 GGCACTGTA CAAAACAGGA ATGAAAACAT ACATATACTG TCTGTCTTT ATGTGTAAT AATGCCAAG ATATTGTCAG  
 GGATTATTTT AAAGAAGCCC TTAATCATGA TGGCTATTTT TAAAAATGGC ACAGGACAGT AACAGGCTGA AAAGAAACAC  
 CTGGTTTGAG GGGCCAAATT AAG

SEQ ID NO:32: (Length of Sequence = 153 Nucleotides)

ACAGGATGGT CAGGACAAGC CACCTCTGGT AAAGTGACAT TTGAGANGAC CCCTGAAGGN GGGGGGTGA GTCATGTGGA  
CATCTTGAGG AAGAGTTTAC TGGCACAGG AACTGCAAGG KCAAAGTCCC CAAGTACTAG GGCTGGGGGC AGT

SEQ ID NO:33: (Length of Sequence = 257 Nucleotides)

TCAGTCAGCT TATCGCAGGT GCAGCCAAAC ACAAGCTTC AGGACAAATT GTACAAACTT TACAATGTGG GATTTAAATT  
TAAATATGA TACATAAAAA TCTACACAAA ACTGATAAAA ATCAAGCACA GNTACCAGGA TTGAAACTTA TAATAATCCA  
TGTTGTAAAG GGAGTCTTGT TTCTTTTCAA GTGCTTTTAT TCTGCTATGG AACAGTCAA ATGGAAGNTG TAAAGCTTIG  
TGGTTAGTTT AAATTAT

SEQ ID NO:34: (Length of Sequence = 307 Nucleotides)

CTCCACCCA TATCTAATCC AACAAAGTCCA GCTGCCTCTC TCINAAMAAT ACCNARGATC AGGCCCCCTC TCAGCACCCC  
CACAGCTGCT GOCACAAAGG AAGCCACGTC ATCTCTCAGG GAGATTGTTC AGCAGGCACT GCCTCCTTGT CACCTTCGCC  
TGTTGTCATT CTCCCCACAT GGCCAGGGAA TGCGTCTGT TAAAGTCTGC TAGGTACGG TCCTTCCTAC TCAAAATGCT  
CCCTTGCGTC CCACTGCCCC CAGAGTAAAA AGCCAGACC TTCAAATGAC ACAAGGCCT ACAACGA

SEQ ID NO:35: (Length of Sequence = 266 Nucleotides)

TCCACAGGTC ATCAGATRCC TGCTNGATAA TATATAACA GTAAAAACAA CTTTCACTTC TTCTATNT AATCGTGTGC  
CATGGATCTG ATCTGTACCA TGACCTACA TAAGGCTGGA TGGACCTCAG GCTGAGGGCC CAATGTATGT KTGCTGTGG  
GTGTGGTTGG GAGTGTGTCT GCRGAGTAAG AACAGNTTT TCAAGATTCT AAAGCTCAAT TMAAGTGSCA CATTAATRAT  
AAACTCAGAT CTGNTCAAAA GTCGG

SEQ ID NO:36: (Length of Sequence = 388 Nucleotides)

CAGCTTTGGA AAGACTTTGA CCTCTGAACA AAAAGCCAGA AGGCTGCTTA AAGAAATAGT AAGGGTTTCA CTGCCCCTGG  
ATAGTCACAA ATCTAGGAGT ACTGGTTTAC TGCCTTGGGT TACCAGGTAT CAGCTCTTC ACAATCTCTC CTCTTCCCAT  
GCTTCCCCTT AAAGTCCAGT TGACAAATGA AAAAGAAAAA AAGGCTTGA TTTATAGTAT TGCCAAACAA CTCATAAGA  
ATGGGTAAAA TTACATACAC ACATACATAG AGAAGGGAGG TAATGCTGTG AATCTACTTG AGCTGGATTG CATGCTCCCT  
AGGGACCACG GTGCCCAACC TGTAAATTTA TTTCTAATT TTATAAATAT ACTCCTTTT CACGGATG

SEQ ID NO:37: (Length of Sequence = 342 Nucleotides)

GAATGTCTAC ACAAGGAAGT ACAGGATTTG GCTTTTCTAG ATGTCATATC CAAACTTGC AGTCATGAGA ACAAAGTGT  
TGCCACAGC GCTCTCTCA CAGAGCAGAG ACTTACTGTG GAAAGCTGAG AACTGCCCCA TACAAGGCAT CATCCATCT  
CTAATTTCCC CTCGTCTC CATCCAGGG CTTCTTCCG TTCAATCTCT ACCATACCAC TTGTGCATGC ATGTRATGTT  
CTAATACCA TTAAGAACC GCTGTAGGTA CCTCCCTAAT AAGGATTCT AAACCTATAG TTAGTGTGAT CATGACTTTG  
GTCAAAGGCA AGTYTCCAC CC

SEQ ID NO:38: (Length of Sequence = 355 Nucleotides)

GATGACTTGG AGAATGCCGA AGAGGAAGGC CAGGAGAATG TCGAGATCCT CCCCTCTGGG GAGCGACGCG AGCCAACCAG  
AAGOGAATCA CCACACCATA CATGACCAAG TACGAGCGAG CCGCGTGCT GGGCACCGA GCGCTCCAGA TTGOGATGTG  
TGCCCTGTG ATGGTGGAGC TGGAGGGGGA GACAGATCCT CTGCTCATTG CCATGAAGGA ACTCAAGGCC OGAAAGATCC  
CCATCATCAT TCGCGTTAC CTGCCAGATG GGAGCTATGA AGACTGGGGG GGTGACGAG CTCATCATCA CGACTTGAG  
CTGGAGTCAT CTTCTCTGTC CTTTGCCCCA TGCCC

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SEQ ID NO:39: (Length of Sequence = 303 Nucleotides)

GCCAAAAACA NYTCTGAACC CGTTTTGGGA AATAATGGGA TTCCTTGATC ACGGGACAAC GAATCACCOCT GAAGTTTTTC  
 TCCAGTTTAC TCAGTCACAT AAGCCACCAG AGGCTAACCA CACTGACAAC AAAAGCAAGT CCCAGGATTC CGGGGGCTAA  
 TACCATGCTA GGCATTACTT GGAAGTTAT GAGTTGGTAT ACATCTGTGA ATTTGGTGGG AGGAGAAAAC TAACAGTAAA  
 TTTATCAAAG CCAGTGGTAC GTTCAGCGTT ATAAAAATTA CAAGGATCTG CTTCTCGGG ACT

SEQ ID NO:40: (Length of Sequence = 178 Nucleotides)

GGTGTGGGG GCTAGAGATA CACATGCCAG TNCATACAT TTCTCAGCAC TGTGCTGTG ATTCACAGCA GTTCAATTGT  
 TCATGCGATA TAAGCCAGTC ATGTGGCCCA AGTTATCTG TCGGCTGTGT TCTCTGAGG AATCTGATGC AAGAAGGCCT  
 GAAGGATGCA TGGCTTTT

SEQ ID NO:41: (Length of Sequence = 322 Nucleotides)

TGCCTTTCTT TAGAAATTTA GGGCAGTGTG ATGCTCCAG AGGTCTGTAC AAACACCAGC TTTCATTGTG CTTGGGAGTT  
 TCCATGCCCT TYCCTTCTCT TCGCTTAGTG CACGTTCTG CTTTATCA GTTTGACTGC CTGAGACTGA KTCACAAC  
 CCAAAGTAA CGCTCAGTC CTCKTTTCA AAGGAGGATG ACTTNTCTNA ACAACTATTT AGGTGAATTA TTKKACAGT  
 TTATTAAGC AATGGCTCTA AACAAATCC ACTGGGGTG ACAAAGTACA ATACAAAAGG CGTACTCTGA GGGCTTGGG  
 GT

SEQ ID NO:42: (Length of Sequence = 278 Nucleotides)

AAACTTTGGC ATTTTTATT AGACACGTAT AAAACAAAA CAAAAACTT CAGTGATACA ACAGACGTTT TCCCTTAGTT  
 CCCATCCAA GGGACAGAG GTGTGCAGCT GAAGCTGGAY CTTTTTCTG TCCTACCTGG AAGCTGTCTC ACTGCTGGAT  
 GAGAATGGCT TCTAAAAGTG GATCTTGGG ATCCTTGTA ATTGCCCCC GGATAAGGAG TGAAGTCAT TTACGGCACA  
 TGTGGATTAT GGTTTACAA AAGATGTCCA GTTATTTT

SEQ ID NO:43: (Length of Sequence = 225 Nucleotides)

AGATCAAAAG ATGAGAGAAG CTGAAACAGA ACCGCATGAG GGAAAGAGGA AAGTGAATC TCTGTGGCCC ATCTTCAGGA  
 TCCACCACCA GAAAACCGT TACATCTTG CCTTTTTAC AAGCGGAAAG CCAGCAGCAG GATCTCTAGG AATATTAGTA  
 TTAAGAAGG CTATGCAGCA TAAACCTGAT TTCAAATGS TAAAGCAAG GTTATGTGTA CTTGT

SEQ ID NO:45: (Length of Sequence = 305 Nucleotides)

GGATGCCAG GAGCTGTCC AGGTGGGA GAGCAGAGT GGACTATTTG AAATCCAGCC TCAGGGTCT CCGCAATTT  
 TGGTGAATG CAAGATGACC TCAGATGGAG GCTGGACAGT AATTCAGAGG CGCCACGATG GCTCAGTGA CTTCAACCGG  
 CCTKGGTAG CCTACAAGG GGTGGTTTG GGGGATCCC ACGCGAGTT CTGGCTTGG TCTTGAGAA AGGKGCATAG  
 CATCAGGGG GGACCGAAG AGCGMCTGG CCGTCAAMC TGCGGGGACT GGGATGGCA AACGC

SEQ ID NO:46: (Length of Sequence = 264 Nucleotides)

ATGAAATAGC ATATCTNNGC CTAATTAAAA GATTCATTA CATTACTTT TATCATTTAT ACTGCCAAGG ATCAGTCACA  
 AAAAATCAA ATTATACATA TTATTATGC TTAATTCA TAAATAAGTA AATTAAAGCA AGCCAATATG TCTCTCTCA  
 TAACATAGG AAAAATTACT GTTTAGCATA ACAGNGTAAT AGGCAAAGTC TAGCCATACA GCAGCAGTTC ACGGTGTGT  
 CAAGTTGGKA CAGGTTCCAT CGAT

SEQ ID NO:47: (Length of Sequence = 175 Nucleotides)

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GATCTCTTCC AGCGTCAATG TACTGGGACA GCAAACACTC ACATTIGAAG TTCTTCTGG CCACCGGCTT CCCAGTACAT  
TGACGCTGGA AGAGATCATC TCAAATGGTT CTCCAGTGTG AGGCTGGAGA TCTCCAGAAA TGGAGTCTAC TCTGGGGTG  
GCTTGTATGG GAGCC

SEQ ID NO:48: (Length of Sequence = 270 Nucleotides)

GTCTGTGAGA GCNACGGGC AGCTCAMRCC CACAGCGGCT CCTCATCTC TGTTGGTGGCA TCCTCATTC ACTCTCATCT  
GCCACTKCT CAGGCGGGCC TCTAGCTTTC TCATGTACTC TAGCAATTCC TGTTCCTCT GCTGTAACTG CTCCTTTTCC  
TTCTGGAGCA CACGCGGGC TGACCGCAGC TGTGTGAGCT TCGCTTACT TTMGACAAC TGTACCAGGC TAGAATCCTT  
TCTGCTGGG TCAGCTTCAG TCTTTGAACA

SEQ ID NO:49: (Length of Sequence = 359 Nucleotides)

CCCTGAAGAG TGGGTGGGAC AACCAGATGG GTGTAAACCC TTGTGGGGGA AAAGGAGTGA GTTTACTTGG TAAATAATA  
ATGTTAATGT CAGCAGCGTG GCTGGGGGAC TCAGTATGGT CCGGGGAAA GAGTTGGGGC AGTGAACCTC CCAGGCGGAC  
TGGCCTTGGG CTGGCAGCAG GGAGGCTGCA GGGCGCTAC CMTCTCTGCC AGTCCCTGC CTAGGAAACC TATCCAGGA  
CACCTGCTT TGGCCTGGAT AGCAGCCTAG GGATGAGCAT TTCTTTGAAA GCAATTAGGT TATTACCTG GTATTAAAC  
TATTIACGT TAAAAATCT GTGACTTCAT GGARGTGGG

SEQ ID NO:50: (Length of Sequence = 271 Nucleotides)

CCAGGAAGGA CAGGAAGTGT CCTCTAATAC GCATAAGATC CAGTACAGGA GAGATGGGAA GMGAGKCTCC AGGATGAAGG  
GGAAARAGG CCGCATGCCA GTCACCTGGC ATCTNCCAGA GAGGGYAGY CTNCCACTG AGACTGGGGC ACGAGTCCCG  
TCATCACCAT GCCCTCTGAC TGTGAACTG TCTTTTACC TGACAAATAC TACACAGGTA TCGMTCGTGG CCATCTCTG  
CTATCTAAAC CCAGGAACCTG ATTAGATTGT T

SEQ ID NO:51: (Length of Sequence = 226 Nucleotides)

CTCCAAGCAG TAAAGACTTG CAAAGCATTG CATTITGATT AAACCTTGCT GGGCTGAAGG GCAGGCAGAG CTGTGGTGGG  
CACTGGCAGG ACGCAGCACC CCCGACTGG CCCTTGGCAG GCTGCACCGG GCGCATGCGG GTGTGGGCCA GGGTTCCTT  
AGGAAGCAGG TGGGAGTCTK NCAOGTCAG KGGTCCAGG AGKGYACCAK GCCTGGCAGG GCACTG

SEQ ID NO:52: (Length of Sequence = 408 Nucleotides)

GGTGGGGCAA GTTGGGGGTG AAGTGCATC CTGCTGCATG AGTGGCAGGG CAGGGTGCAC ACACACAGT GGGTMCCTGG  
TGGGTGAGGC AAGCAAAACC TGCTGCACA TGGCAAAGGG ATGTGGGAAG TATCCATGGG CNCCAGGGGA AGCTGCAGTT  
TGGGGAGGGA ATGGGTGGCA CTGCTGCGTG TCTGTGGGG CCACCCACT GGGGGTCTCC AAGTGGTCAA GTTCCGTCTG  
CCAGGTAGA AGCTATGATG GGGGCTCTA GGACACTNGA GGCTGACCTG AAAGCAAGGT ACTTTTACA CTGGGACCCCT  
GCAAGAGGCC AACAAGATTA AGGGATGCTT CAGGTACAGC TTGGCCCTCT TCTTATGGGG CAAGACCTTC CCGCAGAGT  
TCAGATCT

SEQ ID NO:53: (Length of Sequence = 314 Nucleotides)

TTCTGTGCGA GAGGACCACA TGGCAGTCCA GCAGACTGCA CATTTTTAAA AACTAGGTCT TCCAGGTAG TTGAGGAGC  
ACCAGGGCAC ACTCAGGGAA GGGACATGTC AGTGTCTGAG AGCTCACGGG AGGAAGGTGT AGTGACAACA TGGACCATGG  
TGGAGTGAAT TTAGACGGCT CTGGGTNAG GAGAATCATC ATGTAACAAA GCATTAAATC ATTTGGAGAA ATTACAGAAA  
NCTGTAGATG TACATTCTAG CCCACTACC AGGCCTACTA AACGTCAATC AGATATATTT CAATTTGAAT TOGG

SEQ ID NO:54: (Length of Sequence = 310 Nucleotides)

AAGCCACCGC ACCTGGCCCA TTACATTTAT AATGTTATAA GGGGGTTGAG GGGTGTCCA CTGGAGCAGT GGTTCCTCAA  
CTCGTGTATG CATAGGAATT ACCTGAAGGG CTTGTATAAA CACAACTGC AGGGCCACC CCCAGAGTTT CTGGTTGGGG  
AGGTGTGGGC TGGGCTGAG GATGTGAATC TCTACAAGC TCCAGGTGA GGCTGCTGGT CTGTGGACCC ACTTCAAAGA  
CCCAGTGAAT CAGAAGAGTC AGTGAGACTG GACAAATGAA CGCAAGACAG TCTTCAAAGG AGACCAGAGG

SEQ ID NO:55: (Length of Sequence = 252 Nucleotides)

TTTTTTTTT TYCGGGGAR GTCAAACATA CTTTTCAC ATAGGATKTC TGACAGGAGG COCTTGGMCA GGGTTCCTG  
ACCTCTGYTT CAAACCCAC TGGAAACAGA GCAAAGTCAT CAMGAAACC CAGGACACCA GGGCAGGGG GCTGCACAAG  
GTGCGGTAGG TCACAGTGGG CCAGCACACA GTGCCCCGC CCAGGTCCAG CCCAGCTGG GGGAGGGTGT GAGGGTTCCA  
KGCAAGCTCA TT

SEQ ID NO:56: (Length of Sequence = 188 Nucleotides)

GTCAAGTCTA CCATCATCT AGAAGGAAA GGCATGGTGG GAATTCAGCA CCTGAAGTTG TATTTACACC AGCCTCGGCA  
TCTGGCAAG RAATAGCGAT TGTTATAGT GATGCAGAGA GAGAACAGGA GGAKGAAGAA CAAATACACA CAAACAACG  
ATCTAGGGAG ACTCCAARGA TCCAACAG

SEQ ID NO:57: (Length of Sequence = 304 Nucleotides)

AATCAGCCTG CAAGCAAAG ATAGGAATAT TCACCTACAG TGGGCACCTC CTTGAAGAAG CTGATAGCTT TTACACAGTA  
TTAGATTGAA ATAATGGACA GAAACACATT CTTGTCAAGA AAGGGGGAGA GAAGTCTGTT TGCAAGTTTC AAAGCAAAAA  
GCAAAAGTGA AATGATTGA GATTTCGT TCTAATTGA GATGATTCTC TGGTGTAG AAATGGCAA TATTGATGAT  
TGTGTCTAT TGATTGGTGC AGGATACTTG GTATACGAGT AAATACTGA GACTGTGTC ACTT

SEQ ID NO:58: (Length of Sequence = 261 Nucleotides)

CCAGAAGCTT CTGCTCTCT CTGTGCTCTC AGTGGTTCCC TTCCCTGAAG TGCCCTCCCTT CTCATTAATT ATAGCCTGTG  
TCTGAACATT GTGAGCTATA AGAACCTCA TATTAATGGT TAAGGGACTG TTGGAAATGA TGTGATTTTA TAAAAATGG  
GGTCTTTGTG GAGGAGTCAG GAATGGTCAA AATGAGCTTC AGGTATGGGG CTTGCTCTRT GCTCTGATA CCAAGGGTCT  
GGCAAGCACA AAGGAAGGTG G

SEQ ID NO:59: (Length of Sequence = 470 Nucleotides)

AATACGTATT CTGAAGCCAC TATATCTGCA TATGTATCCC AGATTGTAAC AATTAAGTAA AAAGATGGTG AATGATGAAA  
GCCAGTTTTT TGTCTGTAGA AGTGAGAGGT GACAGATAAC CAAAGGAAGA AGGCTAGAAT GGATAGAGGA CAGTGCTTAA  
GTGTAGTCC TGTGCTTTT AGTCTTATAG ACTTCATTTC CAAAGTTTCT TAGCACCCC CTCTCCCTT TGGTGAGGTT  
GTTTCACATA TTTTCTAGAC AATTAGATTC TTTGTCAA GTCTGTGTT CATCCGGAGA GCCTCTGATC TCTTAAATGA  
TTTTTTAAAT TTACATACAT TAAGGTTCAC TCTGCTGTA AGGTCTGTGG GTTTTAATCC TGTCTCAG TTTTTCATA  
TGTGGCCTT CTGCTGGGA ATACTCTCCC AGATAITCCC CATGACTGGC CCCTTATCTT CAATCAGATC

SEQ ID NO:60: (Length of Sequence = 466 Nucleotides)

GGTITTCAG GGAAGGCAAC TMCAAGTTG TGCAGCTGAA TTTCTGTAAA GTTAAGACAG ACTCAMCTTC TCATTCAATC  
TGGGGCAGTG GATAACCTTT CTGAATAGAC CCACTGTTC ACGGACAGGG ATAGAGGTTT GCCTTCTTC TTTCTGTAA  
TTTGGAGTGA GCACTAGGGA GGGGAAGTGC ATGGGTGACA TGAAGAAGGT GAAGATGTAG TAAAGCATC ATCCAGGTAC  
ACATTAPCGG TGTCTCAGAA TTTTCACTT ACNACTCAGC GASTCTGTAG TGGCAAAAGC AATTACTGAG CAAAAAGCT



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AGTCCTCAAG GGCIGATTCC ACCTTCCCTG TCCAGGGACT TTCTCAGCAA ACTTTGTTC TTAGCAGTTG TTGCTTTGA  
TGGTCTTAGC CAGTTTTTGG TGCAGGGGTG TTCCTCTGGT ACTAGGGCTA GGGCAGCTGT TTAAG

SEQ ID NO:61: (Length of Sequence = 491 Nucleotides)

GACACCCCTC CTGCCATGAA GAATGCCACT AGCTCTAAGC AGCTCCACT GGAACCAGAG AGCCCTCAG GGCAGGTCGG  
GCCTAGGCCA GCCCCCCCAG AGGAAGAGTC CCCTTCTCT GAAGCAAAGA GCAGAGGACC CACCCACCA GGCATGGGCC  
CACGGGATGC CAGACCTCT CGAAGGAGCA GCCAGCCATC TCCAACAGCA GTGCCAGCCT CCGACAGCCC TCCACCAAG  
CAAGAGGTGA AGAAGGCAGG AGAGAGACAC AAGCTGGCAA AGGAGCGCG AGAAGAGCGT GCCAAGTACC TGGCGGCCAA  
GGAAGSCAGT GTGGCTGGGA AGGAGGAGAA AGGCCAAGT GCTGCGGGAG GAAGCAAGCT CCATGGAGCG CCGCTGCCCG  
TTTTAGGGAG CAAACGTCCT AAAGCCGAGC AACCCGCTC AAGCCTTGA GGAACGCTA GCGGAAGAAG TTTGTGAAA  
ACRAGGGGCG T

SEQ ID NO:62: (Length of Sequence = 478 Nucleotides)

ATCATTTAGT ACGCAGAGCT CAAAACAGAC GTGTTCAGA GCCTGAGGA AGTGGGCAAT GCATCTCTT CTGCTCTCT  
ATAGAGCAAG CTCTGTCTCA GGAGGAGTC TGCGATTTC TCCATGCCA CCCTTCCAA ACATCTTCC TAGAGTCTAC  
ATCAAAGAGG GGGAGCGCT GGAGGTCCG ATGAAACGTC TGAAGCCAA GTATGCCCG CTCCACCTGG TCCCTCTGAT  
CGAGCGGCTG GGAACCTCA GCAAATGCC ATTGCTCGG AGGGTGACCT CCGACCAAG GAGCGCTGT CTGTGGCTGT  
CCATGTTGA GGTATCTCT ACCOGATTG GAGCTACCT CAGGACCAT CTGCGGGGC CACCGCCACC AATGCGTATG  
ACGTGATGA GTTTTGTAGT TCACTGCTGT GAGCGCATGA GTGTGTACT GAATCTGTG GACAACGGTT AAGTTACA

SEQ ID NO:63: (Length of Sequence = 183 Nucleotides)

CCTGGAAGT GGGGTGGG CAGGGGGCCA GCGCCAGCAT GCACCCCAT TTTTTGGGG GCTGATCCCT GCGCCAGCTC  
TGCTGATACC CCGGGCCACA GCGTCAGGC GTTGGGGTG GAGKTAGAG TGGGAGAGCA GGGGAGAGAG CCTKAGGAGC  
CACAATTGGG CAGACAGAAG CGG

SEQ ID NO:64: (Length of Sequence = 316 Nucleotides)

GGATATTGCA CCTTACAGAC TTAGGGAGCC TTTACCAGAG ACGCCTAAA GCGCCAGGT TCAGCCATTG TGCTGAATAG  
AGTGGAAAT AGAACCAGG ACAGAGTATT TCATTTAAG TTGATATATA CTGCTAAGG AACACTAAC AATACTGTAA  
CTTTGTAAA GGACATAGTA TTGAAATGG AAATAGAGT CAGGCTACA TCATCTAGT TTAATGCTGG GCACTTTTT  
CTGATTCTG TAGTCCCTG GAAATGTGT CCTTGTACC CATAAGTGG TACAAATGCA TTTGTAAACCA TTTTTG

SEQ ID NO:66: (Length of Sequence = 411 Nucleotides)

ATCTGGTCTA GAGAGGCGAC TCCAAGCTCT CTGCTGGCT CCCAGCTGTG GGAATCCTTT AGGCTTGTTC TCAACCTACA  
CGTTAAAAAT GCTTCTTGGT GTGTTTGGG AGGGGAGAG GGAAGCTGAG CTCTCTCTG ACCTCCTCCA ACACCTTGA  
CTGCTTACC CAGCCATTT CAGTAGCTAC ACGGTGGTC ACAGAACT GGGCGGCACT CGGCACACAA CACAGAACCG  
GGCAGTCCA TGCAGGTGG GGAACACATG TGGACCCAG GGAGCAAGGA ACAGCCACC CCGAGGAACA TGCAACCGA  
GGAAGGATTC CCTTCAGATT CCAAGGATGC CACAACCCG ACGGCGGCT TAGGGAGGCA CCGATTATCT AAGGAAAAG  
GCCACTGTTT G

SEQ ID NO:67: (Length of Sequence = 413 Nucleotides)

CTGCTCTTA TGTTTTATT TCCAAGTTT AGAATTTCT TGCTTCATAG TATTATTTA TTTTACTAAA TTACAGAGTA  
AGAAAAGCTT TTCATTTAT CTGATTTAT TCTTGAACA AAAATATTAC GATCTCTAT ATTTTGTTC TTTTGCAAA

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AAGTGTAGGC AATTTTACAT CATCTTTTTT CCCAATCAGT TTGTGATCCA ACTATAAAAA GGAGACATAG AATACTGAAT  
AAATGAAACA GAAACTCCAA GGCCAAGAAG TGTCCATCTT GAAAGAGTGT TAGTGGCAAG ATATGTGACT GCAGACTAGA  
TGTAGACAAA CCTGAGAAAA ACCAAGCATG GGGGAAAGGA TYCCTATTTT AATAAATGGT GCTGGGAAA ACTGGCTAGC  
CATATGTAAT TTA

SEQ ID NO:68: (Length of Sequence = 372 Nucleotides)

GCACGGTTAA AAGACCAACG TGTGTGNTC AAATATAAAG GCCACACCTT TCAGACCGAA CCTACTCAAA GATCCTTTAC  
TTTGCAATAA TTTGAACTGG AGAACCAAG ACGGGAGAG AATGAAAGCA AAGATGCTCA AAGAACCAAA GGAAAGACCT  
GAAGGAATCC ACCTGCATAG GCCACGCGTT CCACTCTGGG TCAAATGCTT CCAAGATGCA GAAACCTTTT TTTAAAAAG  
TGCAAGTCTA ATTACCTACC AAGGGTAATA AAAAGCACAG CACAGGAATG ATTACAGCTG ATGGTCAAAA AACAAACCA  
AACCATTAA AAAACAATCA GGCAGAAAAC AGGAGTTAA TGTTTACATA TG

SEQ ID NO:69: (Length of Sequence = 389 Nucleotides)

TCTAGAACCT GGACCCACCC AGCGCGTCTT TTCTTATCCC CGAGTGGATG GATGGATGGA TGGATGGTAG GGATGTTAAT  
AATTTTAGTG GAACAAAGCC TGTGAAATGA TTGTACATAG TGTTAATTTA TTGTAACGAA TGGCTAGTTT TTATTCTCGT  
CAAGGCACAA AACCAGTTCA TGCTTAACCN TTTTTCTCTT TCCTTTCTTT GCTTTTCTTT CTCCTCTCTC ATACTTTCTC  
TTCTCTCTCT TTTAATTTTC TTGTGAGATA ATATTCTAAG AGGCTCTAGA AACATGAAAT ACTCAGTAGT GGATGGGTTT  
CCACTTCTC CTCAATCCGT TGCATGAAAT AATTACTATG GTGCCCTAAT GCACACAAAT AGCTAAGGG

SEQ ID NO:71: (Length of Sequence = 329 Nucleotides)

GAAAAAATGG GAGGGCAGCC ATGTATTAAT TGTACATCCA AGGAAACTGT GCGCCAGGGG TCTTGTGTGT ATTTCTGAGA  
AGAGGGGTGA GAAAAGGCAC TGTGTCAACA TTGTCTTCTG CCTGAACGTG CACCTCCAG TGCTCTCCA TCAATTAGGA  
GAAGTGTCTT GAAGAATGCT GCCTCAGCTT CTGAAGAGAA GACCCAGGA CATGCATTAA TGAGAGGAGG GGAGTCACAG  
CTGCAGAAGA ATAAAGCTCT CTGAGGGAGC CTGGGNGCCC CCAGTGGAGG CCGGAGCTT GTTGACCANN GCAGCAGGAG  
ACCCCTGCT

SEQ ID NO:72: (Length of Sequence = 418 Nucleotides)

CTGAGTTGCC TGAGGTCATT CACATGCTTC AGCACCAGTT CCCATCTGTT CAGGCAAATG CAGCGGCCTA CCTGCAGCAC  
CTGTGCTTTG GTGACAACAA AGTGAAGATG GAGGTGTGTA GGTAGGGGG AATCAAGCAT CTGGTTGACC TTCTGGACCA  
CAGAGTTTTC GAAGTTCAGA AGAATGCTTG TGGTGCCCTT CGAACCTCG TTTTGGCAA GTCTACAGAT GAAAATAAAA  
TAGCAATGAA GAATGTTGGT GGGGATACCT GCCTGTGTGC GGCTGTGAG AAAATCTAT TTGATGCAGA AGTAAGGGAG  
CTTGTTCAG GAGTCTTTGG AATTATCCCT CATGTGATGC CTGTAAAAAT GACATTCATT CGAGATGCTC TCTCAACCTT  
AACAAACACT GTGATTGT

SEQ ID NO:73: (Length of Sequence = 336 Nucleotides)

CTGAATTTTT ATATGCTTCA CTAGGCCTT CATTGAGTA GACTCTAAAA ATTCTGCCTT GCTTAAGTNC TAACACTGCC  
TCTCAGATTT CAGTTTGGGA CATGACACAA CTAAGACCTT TTAACGCAT TTCTTGCTA ACTCGGAAGA CACATAGTCT  
GCAGCAAGAC ATTCCTATAT TGAAGAAATG AGAGAAAATT TTATGCTGCA TCAGGTGGAG AGCAAGGCTC AACGGTGGTT  
GCATTAGTTC CCTCGGAAGT ATTGAAAAAN CTTTGAAATG GGAAGGAAAA TTTTTCAC CTAATGTTCC TGAGGTACCC  
AGAATGTCTG GGGGT

SEQ ID NO:74: (Length of Sequence = 402 Nucleotides)

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GTGCTCAGTA AATACAAATT GGATGGACTA GAGAGATAGC CCGAGGACA CTGCCAAATA AATAACAAAT TGTGCAAGCA  
GCAGGCCGCT GTAATTAGAC CAAGGAGGAC AGTCAGTTAT TAATATCAGA CACGTGGCAG GGTAAACAGC CACTGAGGGT  
GGGTACAATG AAGAGAGTCA CTTTCTGCAC CCTCAGGGAC TTCCCTTGIG ATGGCCCTTCT AAAGAGGGCT GAACAGCACC  
AAGTGCCCTC GCTGCCCTG GTTCTCTGCTG CCTCCGCGT GCGTTGGGTG CCCCACAACT AGGGCCCTGG GTCCCTCCCA  
TGTCCCTCTC CCTCTACAA CCGCTCAGCC CCTTATCTGG CCAGCCATTA TGATGCTAT CAGTATGAGG CCAGATGAGA  
GT

SEQ ID NO:75: (Length of Sequence = 454 Nucleotides)

GGACCCCGGG CCGCGATGT GGCCAGTAC CTGCTCTCAG ACAGCCTCTT CGTGTGGGT CTAGTAAATA CGCTTGCTG  
TGTTTGTATG TTGGTGGCTA AGCTCATCCA GTGTATTGTG TTGGCCCTC TCGAGTGTAG TGAGAGACAG CATCTCAAAG  
ACANATTTTG GAATTTTATT TTCTACAAGT TCATTTTCAT CTTTGGTGTG CTGAATGTCC AGACAGTGA AGAGGTGGTC  
ATGTGGTGCC TCTGGTTTGC CGGACTTGTC TTTCTGCACC TGATGGTTCA GCTCTGCAAG GTCGATTTG AATATCTTTC  
CTTCTGNC ACCACGGCGA TGAGCAGCCA CCGGTGAGT CCGTCCCTG TTTGGTGGC ATGCTGCTTT TCTGCTGTG  
GACTTGGGC CGTTGCTCA TTACCGGTA CACCAAGAA TGACACCTG GCTT

SEQ ID NO:76: (Length of Sequence = 313 Nucleotides)

GCTTTGATAG CTAGTTGTCT AAAAGTGCTG NTTATTAAAT AATCCACCTN TTTCCCACT TAAACATCC CTCTTACCAT  
ATACTAAATT CNGTAGCCC TGGTCTGTT TCTGGACTCT CCGTCTGTC TGACCCCTC CAGGTACAC TGAGTGAGGT  
AATGGTGGCG TGAGAATCT CTGGGAATCT GGCAGNTCA CCGGAGCA GTCCACCCN CAACTCATTA NCATCGTTCA  
GAGTGGCTG AGTGTCTCA CACATTCCT CTGCCAATG CACTTTAGGA ACTGTCAAT TCCAAAGTT CAA

SEQ ID NO:77: (Length of Sequence = 446 Nucleotides)

CTCAGCGTA GCGCTAAGTC GTTTTCCAA TTTAGGAAGC TCACAACGCA GATCTGCATT GTCAOGTACC AGCTGTTTGT  
GAACCTTGT AAGCTGTCC AGGTGTCTT CAAGAAAGGA AATCTCTGC TTTGGGAGT GAATCCCCC ACTGTCTCG  
GGCTCCATTT CTGCATTTT CTGACTCGA GTCTGACGT CTTGAACGAA CAGCTTGGA AGGTGTGTC SGGTCTGGAG  
TTCCCGGCA ACTGTCTCT CCAGACCTT GAGGTCTGC TTGTGACTGC TCAATGTGC TGTACAGAA ATGTCAGCTC  
CTGCAGCTT GTGCTCTTC TGTGGTTCT TCGCTCTTC AGCTTCTCG TAGTCAAGCC TGAAGGCTC TCTAAGCTCT  
AACTGGAGCT TCTGATTAA GTCTTTTGA GCTCATCAA TGGTCT

SEQ ID NO:78: (Length of Sequence = 296 Nucleotides)

AGCOGGTGGC GCAATGGAGA GAATGTGCT GAGACAGAGC GCGTGGCTGG GGAGGAGGCA GCGCTGGNG CCGAGCTCTG  
TGAGGAGACC CCGTGAATG ACAACTCATC CATGTGGTG CGCATGCGC CCGAGGAGG GCAGAAATAC GAGGAGGAGA  
TCGCGCTCT CTATAAGCAG CTINACGACA AGGATGATGA AATCAACCAA CAAAGCCAAC TCATAGAGTA GCTCAAGCAG  
CAAATNCTGG ACCAGGAAGA GCTGCTGGT TNCACCGAG GAGACAACGA GAAGGT

SEQ ID NO:79: (Length of Sequence = 285 Nucleotides)

CCTTCTCTG CTGGGAAGTG ATGACTGCA GGTGGGCTT GCGCTGGGG GCTCCAAGCT GGTGCTGTG GGTAGGTGGG  
GGGGAGACT TGGCAGGGAT GACCTGTGT AGGCTGTGC CATGGCCAC AGGGAGGAG CCAGGGGAG CCGAGCACT  
GACGTAGCCA TTCCAACAG GGCTGGGGCA GGCTCGTTA GCATGTTC AGTACCCNC CAGCATGGCC  
CCTCACTACGCT GGGCAGGCA GGAGACAC TGTTCTCTG TAGTG

SEQ ID NO:80: (Length of Sequence = 402 Nucleotides)

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ATGATTCTTT GCGTGTNATA ACCTATGCAC TCACAAAGAT GAACTCTCTG AGAGGGATGA GCAAGAGCTT CAGGAAATCC  
 GAAAGTATTT CTCCTTTCTT GTATCTTTTT TCAAAGTGCC GAAACTGGGC TGGAGATAA TAGACTCCTC AACCAGGAGA  
 ATGGAGAGCG AAAGATCACC GCTTTATCGC CAGCTAATTG ACCTGGGCTA TCTGAGCAGC AGTCACTGGA ACTGTGGGGC  
 TCCTGGCCAG GGATACTAAA GCTCAGAGCA TGTGGTGGG ACAGAGTGAA AAGCTGAGAC ACTTGAGCAC ATTTCTCAC  
 CAGGTGTTAC AGACTCGCCT GGTNGATGCA GCCAAGGCC TGAACCTGG TGCCTGCCA CTGCCTTGAC ATCTTTTATT  
 AA

SEO ID NO:81: (Length of Sequence = 246 Nucleotides)

CATTTTAAAT AGAGACGGGG TTTAACCATG TTGGCCAGGC TGGTCTTGAA CTCTTGATCT CAGGTAATCC ACCCACTATG  
 GCCTCCCAA GTGCTGGGGT TACAGGTTTG AGCCTCTGTA CCCGCCCGG CCAAAGACTG CCTATTCTAA ACGTTGCTGA  
 GGACGTGGAN CAATCACAGC TCTCINTCT TTCCAGTGGG AGTTTAAAT GGCACAACCG CCTGAAAACC GTTGGNGAT  
 TCTGT

SEO ID NO:82: (Length of Sequence = 394 Nucleotides)

GGGAACCCCTC AGCAAAATAT AATGGTACCG CTATTATCAG CCTTGTTGGA GGCCAGGGA TTTGGGGGA GGTACAGTG  
 TTCTGGAGGA TATTCCCTCC TTCCGTGGGG GAATTGCTG AAACATCAGG NAACTGACA ATGCGAGAGC AACAGTCTGC  
 AGTCATGTGA GTAATACAGG CTTTGAACGA TGACATTCCTC GAGGAAAAA GCTTCTATGA GTTTCAGCTC ACTGCAGTCA  
 GTNAGGGAGG AGTTCTGAGT GAATCCAGCA GCACTNCCAA CATCAGGCTG GTGGCCAGCG ACTCTCCCTA TGGCCGATTT  
 GCCTTTINAC ATGAGGCAAC TTCGAGTGTC AGAAGCACAG AGGGNTAACA TCACAATCAT CCGTCCAGT GGAG

SEO ID NO:83: (Length of Sequence = 308 Nucleotides)

ATAAGACCAT TGGCAAAGG AGAATTCATG AACTGAAAGA TCTGAAGTAA TTTCCAGAA TGTAATGTGA AGAAATAAGT  
 TAAAAGGCAG AGCATAATGA GTCTAACATG TGTGATTGAA GTCTTATAAG GAGAGAATTA AGAMCAGGCA ATATTTTAAA  
 GGRATAATGG AGAAAATGGA ATAATTGATG AAATATGTGA ATATATATAG GGACCATATG CATATGAMGG CCGGGGGTTA  
 AATAAACGA AATCTACTTG TACATACTTT ATGGGATTCC TGCAGCCCGG GGGGATCCAC TAGTTCTT

SEO ID NO:84: (Length of Sequence = 313 Nucleotides)

CTTTAACTTA ATGGCAATTA AAATCACTG GCAAAAAA TCACTAGAGA TGTCAGTCCA TTATCTTACC AAATAGTGTA  
 TTTTACCAT CTTTACCTA CACCCTTGAG TAAGTGGA TAGGTAAAG TTAAGTGCAT AATAACACTT CATGAATTC  
 ATGATAGTAT TTAACATGTT AAACTGTTT AGTTGAAAAG TTCACATGCA ATTTATAATT TAAAAATATG CTACATATAT  
 TTCATAAAW TACAATAGGT CATACTARAC TTTGACTAAA ATTAAGAATG TKTTTCTKTC ATAATAATGC AGG

SEO ID NO:85: (Length of Sequence = 303 Nucleotides)

TGCTCCGTTT ATTGCTCTAT TCAATGACCA CGAGCGAATT ATAAAAAGAC ACCAAATGTC TCTGTCTGCC GTGGGATAAA  
 TATTTAAAGT CAGCAATAAA GTCACGTGGC TCCAAGRTAA TACATGTTGC CAAAGAGTCA TGCATGCCCT CCTGATGGGC  
 TCTCAACACA CGTATGGWCA TGGGAACACA CGCAGAGCAA CAGCGAGTAT GAACTTSTGG GAAGGCTTTA CCACAGTGAC  
 ACAGTAAAT GTCTCAOGTA GATCTGRGCT GAGTCCCCAC CCAACCTTG AGCTCCCTT CCA

SEO ID NO:86: (Length of Sequence = 380 Nucleotides)

AAAACAAACC AGCTTTAATA CCAATATAGT TCTCTCTTAA ATACCGTCTT TCCCAGGACA AATGCAGGGG CAGGCTCTTG  
 GCAGAAAGAG TAGAAAGGAA ATGTGGAACA AAATGGAATG GATGGCCAG GCCAGGGTC CCTGCCTTGG GCACTAGGGA  
 CTGGGCTGCC TCGGGGATGG GGGAGTGACA GCAGCTCCCC CTGGTCCAGT TATTGCAGAG GCGTCGGGG CTCCCTCCC

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TCCCCAGGCC TGAAACATT CTCAGGATTA CTCTGACCT TCAGCCCCAG CAGGGCCAGG GCCTGGGCTC CTCTGGTCTA  
GGATGGGCCC CTTTGCCCAA AAGGGCCTTC AGCTAAGGCG TTGGGTGGG CGGGGAGCCC

SEQ ID NO:87: (Length of Sequence = 280 Nucleotides)

GCCTTTGCTG CTTATTGCA TCGATGGTGA AAGAGATGTC AGGAGCACTT CTCTGCTGAG GTGGCTGAGA CGAAGAGGAC  
TCTGCTGCCA GCCTTGCCGC ATACCTGGCA ATTAGCCTGT GTCTTTCATC AAGCCGGTTT GAACTCTCAA GCATGCTCCT  
GGTAATAAAA GGACTTCCCTG AGGAGGGAAC AGAGTGNGAG AACAGGGTGT CGTTCATGCT GGTTACAGGT CTGGGAGGCA  
CGATGTGAGC CAAGTTGAGT GGCTTCTCAG GCTGATCTGG

SEQ ID NO:88: (Length of Sequence = 446 Nucleotides)

CCTGGTCTC TTACACCCYC TCCCACCOGA GGCTCCCCAG AGATAGCAGA GAATCGAAG AGGTGCGCGG GGA CTGGAAA  
GAAGTCCNG NAGGCGCCT TCGAGTCTA CACCCAGCC TGCTTCCAG CCTACAYCA GACCCAGCTC AGACCTTGT  
GACCACCCA TCCCTTCTC CGGCTGGCTG GGTGGGGG ATCCCTCTCT GTGCTGGCT TCCAGAGGCA GGACAGGCCT  
CCTGGTAAGC CCGCAAAGTT GCTGACCTCC TGACTTGTCT TGCCCTTTAT TAATATCTGT ATTGCTGATA ACGTGTCTCT  
TGACTATGTG TOCCAGGTCA TGTCCAGGT CATGGAGAAG CCGTGCCAC AGTGACCTT CCCATACTTC TGGGGGGGCT  
GCTCTCCATC TGGATGCTAG GAGGATATAG GTGTGTCTG GACCAT

SEQ ID NO:89: (Length of Sequence = 384 Nucleotides)

GTCCCTCTG GGA CTCTCTT TCCCATTT ATTGCTGCTG TGTCCCTNAC CAGTTCCCTG CAGGATCC TCCTTTTAAA  
ATGCCCTTAA ATCTAGCTTT GCCTTGGAGA CCGAGTGGG TGCTGCTCCT GCGTTTCTT TCCTGCCAAG CCGTAATCAA  
TGTTTCATCT CCAACCTCT GCCAGTTTG CCGCTCAAAG CTGGTGGCT CAAGACTGTW AGCCTGGCAG AGCCGCGNGG  
TGAAGGGAGA AGCTCTTGA GCAGGAGGA TGCCACCGCT GCTTCAGCTT GCTCTCTGC CCAGCTACCC TTTGGCCCCA  
TTGGGCCCTC GIMTGCTCT CCAGGATTGT ATGTTTCAAG NCTTGCTCTG TGTCTCTTG TCTG

SEQ ID NO:90: (Length of Sequence = 344 Nucleotides)

TCAAGCTGA AAGGGCTACT ACCTCATGCT GGAAAGGGCT ACTACCTCAA GCTGGAAGG GCTACTACCT CAAGCTGGAA  
AGGGCTACTA CCTCAAGCTG GAAAGGGCTA CTACCTCAAG CTGGAAGAG CTACTACTC AAGCTGGAAA GGGCTACTAC  
CTCATGCTGG AAGGGCTAC TACCTCAAGC TGGAAAGAGC TACTACCTCA AGCTGGAAG GGCTACTACC TCAAGCTGGA  
AAGGGCTACT ACCTCAAGCT GGAAAGAGCT ACTACCTCCA AGCTGGAAG GGCTACTACC TCATGCTGGG AAGGGCTAC  
TACCTCAAGC TGGACAGGC TACT

SEQ ID NO:91: (Length of Sequence = 364 Nucleotides)

GCCCCAGGT GAGGGCTATG AGGGGTCAGG GGTCAAGTTC CCCAGGACCC TAGTCTTGT CCCCTTCCCT GTTGCTAAAT  
AAAAGTGAAT AAATACTAAA TAAATACAAC TGGGGCCAG GCGCTCCCTG CCTTCCCTT CCTCTCTGT ACCCGCAGCA  
GAGGGGCGAG TTTAGATGGA GGGCTGTCTG TCAGCCCTT CCATCCACTA ACCATCACT GCGTCCAGG GCAGGAAACC  
AGGGCAGGC CAGCTGCGC ATTAGGGCAG AGAGGAGGGG CAGGTCTCAC GCCACAGCC CCTTCCCTT TGAGTCTTGG  
CATGAGGCAG CAACAGAAGC TCTCTCTTCC TOCCAGCTAA GTCC

SEQ ID NO:92: (Length of Sequence = 218 Nucleotides)

ATTTAATAGA AAATTAAT AATAATAAT ATGAAATAGA :TGATAAGC TGAGCTGGG AGGCCAGGC CAGTCTAGTA  
CAPAGTTAAG GAGGTAGGA GGATGGTGGG GAGGAGGGG CCGACTACCC TGCAGGAGGC GGGAGGCTGC TCAGACTGTG  
GTGATGTCAG GAAGGGCCGC ACACCTTGGC ATGGACGATG CACTAAAAA AGAGAAAG

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SEQ ID NO:93: (Length of Sequence = 364 Nucleotides)

GCTTTCAAGG GAACAAAGAA TGGGCTGGC AGTGGCCCTGG AGAAGGAGGT GGAGAGCATG GGGGCCCATC TTAATGCCTA  
 CAGNACCCGG GAGCACACAG CTTACTACAT CAAGGCGCTG TCCAAGGATC TGCCGAAAGC TGTTGGAGCTC CTGGGTGACA  
 TTGTGCAGAA CTGTAGTCTG GAAGACTCAC AGATTGAGAA GGAACGTGAT GTGATCCTGC GGGAGATGCA GGAGAATGAT  
 GCATCTATGC GAGATGTGGT CTTAACTAC CTGCATGCCA CAGCATTCCA GGGGCACACC TCTAGCCAG GCTTTGGAGG  
 GGCCAGTGA GAATGTCAGG AAGCTGTCTC GTGCAGACTT GACC

SEQ ID NO:94: (Length of Sequence = 423 Nucleotides)

CTTCATACTA GAACTGCTG CCATCTTTAT TTCITTTGTT TCAGGAAAAT TGGAGAGAAA AGTATTTCTT TTTAAAAAT  
 GATTATTATA CTTTAAGTTC TGGGATACAT GTGCAGAACG TGCAGTTTG TTACATAAGT ATACACGTGC CATGGTGGTT  
 TGCTGCACCC ATCAACCCGT CATCTACATT AGGTATTTCT CCTAATGCTA TCCCTCCCT AGCCCCCAC CCTCCAACAG  
 GCTCCAGTGT GTGATGTCC CCTCCCTGIG TCCATGTGTT CTCATTGTTC AACTCCCACT TATGAGTGAG GGACATGCAG  
 TGTITGATTT TCTGTCTG TGTTACTTTG CTGAGAAATGA TGGCTTCCAG ATTCAATCCAT GTCCTTGCAA AGGCATGAAC  
 TCATCCTTTT TATGGCTGCA TAG

SEQ ID NO:95: (Length of Sequence = 405 Nucleotides)

AACAGCCCC GATCTGCATA GCCTGTGAAA GCCCACGGG ACATCAGTAA CCTCTGCAG CCACCATCCA ATGCCATTAC  
 TGTAAGTGA GACTTGGCCA CTGTAGCCTG GGCTGTGC AGGAGCTCTT CAGAAAGGCA CATGAGGACC ACGGTTTGCC  
 TCAGTTTCTG GTAAACACA AGGTCTGAG TGGCCCTGCA AAGGGTATG ATGGACTTCC TGCCAGTGAC AGAGCATGTC  
 TATGCAAAC AATTCCTCA GTTACGTCA GCACTTAAGA ACGCTAATG NCAATAGGAT CTTAGCAAC TTTTTCACAT  
 CATAGAAGGT GCAATCGCTC ACTTGGGAAC ACTACTGAGA GTGACTTCTC TTTTAAATTT GAGTAGCAGA TGAAAAATTA  
 AAAT

SEQ ID NO:96: (Length of Sequence = 173 Nucleotides)

GAAGACAATA CTGATGCCAG CTCITTTGTA TTGTGAAATC TGTACCCAAA CCTCTGGATT AGAATCTCCA GTGTCTACT  
 GTAAATACTG GAATTACAGC AAAGGATATG GGGACTGGC TGCTTTTCTG TATTGTACAA GCACTATTCT AGATATTAAA  
 GAAATTTAAC CGC

SEQ ID NO:97: (Length of Sequence = 337 Nucleotides)

ATGGCGCCCT ACAGCCTACT GGTGACTCGG CTGCAGAAAG CTCGGGTGT GCGGCAGTAC CATGTGGCCT CAGTCCTGTG  
 CCAACGGGCC AAGGTGGGGA TGAGCCANTT TGAGCCCAAC GAGTACATCC ATTATGACCT GCTAGAGAAG AACATTAAAC  
 TTGTTGCAA ACGACTGAAC CGGCCGCTGA CCTCTCGGA GAAGNTTGTG TATGGACACC TGGATGACCC CGCCAGCCAG  
 GAAATTGAGC GAGGCAAGTC GTACCTGCGG CTGCGGCGG ACGGTGTGGC CATGCAGGAT GCGACGSSC AGATTGGCCA  
 TGCTCCAGTT CATCAAG

SEQ ID NO:98: (Length of Sequence = 212 Nucleotides)

TGAAGCCCAA GNAGTNTGTG AAGACAGAGA ATGACCACAT CAACCTGAAG GTGGCCGGGC AGGACGGCTC CGTGGTGACG  
 TTCAAGATCA AGAGGCACAC GCGCTGAGC AAGCTGATGA AGGCTACTG AGAGAGGCAG GGCTTKTCAA KGAGGCAGAT  
 CAGATTCAGK TTCGACGGGC AGCCAATCAG TGAACTGAC ACTCCAGCAC AG

SEQ ID NO:99: (Length of Sequence = 26 Nucleotides)

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CCTTTTAATA ATAATTCCTGC TGTCTGCTGT GTACTAGAAC CCATGCCTAC TGCTTGGGGT ATAATGTAGT AAATGTAGTA  
 AAAACAATAT CCGCCGGGCG CGGTGGCTCA CGCCTGTAAT TCCAGCACTT TGGGAGGCCA AGGAGGGGGG ATCAGGAGGT  
 CAGGAGAGCG AGACCATCCT GGCTAACATG GTGAAACCCC GTCTCTACTA AAAATACCAA AAATTAGCCA GCGTGGTGA  
 TGGACGCCCTG TAGTCCCAGC TACTC

SEQ ID NO:100: (Length of Sequence = 333 Nucleotides)

AAAATGCTCA CAGTGGTCTT CTCTGGCCGG TGAGCCTACA GCTGATCTTG TCAGAGACAA ACGTGTAGTTT TACTGAGTCA  
 CCCAGAGCCC TGTGCTGGTG CCTGAGGGTT TGTTCCTGG GACAGTCTCC ACAATTCCTC TGGGGAAGGG CCACAAATCC  
 CACAGTGTGT CCAAGAGGGG CTGGAGTAGG CGGAGTCCCC AGCAGCTGTG GCATGACCAG CCATCTCTCT CAAAACAATT  
 GTTAACAAGC CTTCTGCAAG TTAAGGTTC ACATGGTAGC CGTGGTACAG AGGCATTCT CTAGGGTGGG AGAGGCTTGT  
 GCTCTACACC AGG

SEQ ID NO:101: (Length of Sequence = 156 Nucleotides)

CTCTGACTTT CCTGTGGNTT TAGAGCCAAG CTCAGGTAG TAGGCCGTAG GGCCTTATTT TATTTTCAA CCCCCATCT  
 CAGAGCGCAG ATACATGCAG AGGCTTCTGC CAGGCTACCA CCGGGCCTTA GTGGGAACAG GTTGAGACCA GCATT

SEQ ID NO:102: (Length of Sequence = 331 Nucleotides)

CGAAAGGGG NNNTATGGCC ATCTTTTATC AGAAAAGTG ACAAACGGG AATTAAAAA ATGAATTTTC NNTCTGACTT  
 TATTNNAAA TACACTTTCT TTTTNNAAA ACCAATACAC TTCTTTTGGG GATGACAGTA TTAGGAAATC CAATTNNACA  
 AAAATACTA CATCTAGTCT GGGGTAGATA TATTTATTTT TGTAACATA CATTAAGTGG CACTAATTAC ACAGTAACIA  
 TAAGTAACT AACATGAAAC CACAGAACTG TAACTCTGCC ACAGCTGCAT GAACCTGGGC TTTTCTGGTT GAGCCCATTT  
 TCAAAAACT G

SEQ ID NO:103: (Length of Sequence = 316 Nucleotides)

AGCCACTGCG CCCACCCCA TTGCGGTGIN ANCTCAGCTC ACTTCAACCT ACCCTCCCA AGTTCAGTG ATTCTCCTAC  
 CTCAGCCTCT TGAGTAGCTG GGATTACAGG GGTCTGCCAC CAOGCTGGGT GATTTTCTTA TTTTGTAGTG ACACTGCATT  
 TCACCAGGTT GGCCAGGCTG GTGTGAAGT CCTGACCTCA GCTGATCCAC CGTCTCGGG GTCCCAAAGT GTTGGGATTA  
 CAGGTGTGAG CCAACCACACC AGGCCATAT TTTCTTTTAG ACATGCAGGC AATGTGGTG GGTGTGCTG TTAAGA

SEQ ID NO:104: (Length of Sequence = 308 Nucleotides)

GTTTTCTCG CATCTATTGA GATAATCATG TGGTTTTGT ATTGGCTCT GTTTATATGC TGGATTACAT TTATTGATTT  
 GCGTATATTG AACCAGCCTT GCATCCAGG GATGANGCCC ACTGATCAT GGTGATAAG CTTTTTGATG TGCTGCTGGA  
 TTGTTTTGC CAGTATTTA TTGAGGATTT TTGCATCAAT GTTCAATCAAG GATATGGNC TAAAAGTGTG CTGTATTGAG  
 GAAACCATC TCAGTGCCAG AGACACACAT AGGCTCAAAA TAAAGGGATG GAGGAAGATC TACCAAGC

SEQ ID NO:105: (Length of Sequence = 355 Nucleotides)

GGCCTTCTC AATATGTAGG CGCCACTTTT TCTCCTGTG CCTCACCTG GTCACCCCTC TGTGCGCGAN ATCCCACTGT  
 CTCTCTGGGT GTCCAACTT CCTCTCTTA GGAGGACACA AGTCAGATTG GATTAGGGCC CACCCCAATG GCTCATTTT  
 AACTTAATCA CCTCCCTTTT GTTTGGGCTT TTTAACTTAA TCACCTCTT AAAGACCTTA TCTCCAATA AGGTTTCAIT  
 CTGAGGTATA CTGAGGTTA AGACTTTAAA ACAOGAATTT GGAGGGGACG TAATTCAGCC CATAACAATA ACTATAATGA  
 CATCTTACAA CTTACTGCCA CCACCAAGCT TGCTG

SEQ ID NO:106: (Length of Sequence = 355 Nucleotides)

GGATGAGGTC GCGGGATCG TGGCTGCAG CCACTGCAAG ACCAACATCG TCACAGCTTC CGTGGAGGCC ATTAATTTTC  
ATGACAAGAT CAGAAAAGGC TGCGTCATCA CCATCTCGGG ACGCATGACC TTCACGAGCA ATAAGTCCAT GGAGATCGAG  
GTGTGTGGTG ACGCCGACCC TGTGTGGAC AGCTCTCAGA AGCGTACCG GCGCCGCACT GCCTTCTTCA CCTACGTGTC  
GCTGAGCCAG GAAGGCAGGT CGCTGCCTGT GCGCCAGNTG GTGCGCGAGA CCGAGGACGA GAAGAAGCGC TTTTAGGAAG  
GCAAAGGGCG GTACCTGCAG ATGAAGGCGA GGGAC

SEQ ID NO:107: (Length of Sequence = 273 Nucleotides)

GTCCTCTTT TAAAGAAAAC ATACTTTATT TTGGTCTAAA TTGIGAAAAT ACCCAAACA TTTGATAGAA ATTGAACTCT  
GTCAACAGTG TTTTATATAC TAAGATCAGG ACAGTTCCTT GAGATCATAC TGTTTTATTA CTAAGTTTGG CCTTGTGTTT  
ACAAATGTAA TGTTTATATT TATTTGAATT TTAAGATTGG TTAAATGTAA ATGAAAAGCA ATCCAATTGT TANTTTTATG  
TAGTGCCTTT TCTCTGTATG CCTTAATTTT ATT

SEQ ID NO:108: (Length of Sequence = 359 Nucleotides)

ATTTTATTTT CTTACATCGA AGAAAATGTT AAAGAGTATC TGCAGACACA TTGGGAAGAA GAGGAGTGCC AGCAGGATGT  
CAGTCTTTTG AGGAAACAGG CTGAAGAGGA CGCCACCTG GATGGGGCTG TTCCTATCCC TGCAGCATCT GGAATGGAG  
TGGATGATCT GCAACAGATG ATCCAGGCCG TGGTAGATTA TGTGTGCTGG CAGATGTCCC TGGTCCGAAA GACCACTGCA  
CTCAAACAGC TGCAGGGCCA CATGTGGAGG GCGGCATTCA CAGCTGGGCG CATGAAAGCA GAGTCTTTTG CAGATGTAGT  
TCCAGCAGTC AGGTAAGTGG AGAGAGGCCG GGATGAAGG

SEQ ID NO:109: (Length of Sequence = 360 Nucleotides)

TTTATNAAAG CAGTTAACT TAGCATTAAA TAACACTCTT TAAATGGTAC ACCTATGAAG CAAGAGTTAA ATATAAACC  
AGTCTAATCC TGTACACTTG TGATTAATG TGACAATCTT AAGTTGCTCA CTCTTTTCCC ATTTACCAAT TCAGAGAAAG  
CCCGTTTCTT GTTTTCTCTT CACCATTG CTTTGGCATC ACACCAACCC TGCTTCGGG TTCAGCTGCA GATCCTCCCC  
AGCCCCCTCT CCCAGCTGGG CTGACTCCAG TCCCAGCCCC AGTCTCCACC AACTGAGCAG CGTACGCAGG GTTGTGTCTG  
GCTTCCAGCA TCTACCAACC CTTAGAGCA ACTT

SEQ ID NO:110: (Length of Sequence = 364 Nucleotides)

TCTCAGAGGG GCTCTGGGG TCATTCAAGG GGGACTTCTA GCTTCTCTCT GGAACCTTT GTCCAGAGCA AAGCCAGGTT  
TCCAAGTCC CCACGGCAG GCTGTGGGT GCTGGCAGCA AGAGGTACAC AGCAGTTCTC CCAGCTCACA GCACTGACCT  
CAGATCTCCA GCAGCAAGG CGCACTCTC GTGCCACAA GGGCCTTGCA GAAATNCTCC GGTCCCTGGG NCTCCCCGG  
CAGGAGGGGC GGGGCTCTG CTTGCACTGA GGCCACAGCA CTAAGCGGCT TCACTCATAT GCTTTTCAGG TGAATCACTC  
CAAATTCAGT GAGGAGGGCC ACGACAAGGA AGTTCAGGTA GAAG

SEQ ID NO:111: (Length of Sequence = 455 Nucleotides)

TTTTTTTTTT TATATTTTAA ATGGAATTTA TTCTATCAAC TGCTGAGAG GACACAATGG GGGAGGGGCT TCGGACCACA  
GCAGGAGCCC CGACTGCCCA CCTGAGGGCA GGGAGAGCCT GACCCCATG GCGCAGGCC TGCTCTGTGA ACCATTAAAC  
TCTTCCCCCA ACTAACACCA ATGAAACAC CATTCCAGT GACTGGGCTG TGTGTTTGCC TCTGTGACAT GGGGACCCCT  
GACCTAGGG GTCTGGCTG AGCCAGACCT GAGGGACCA CCGCGTATG ATGGAGGAAG GTTTAGGCTT CCTTTTGGC  
GCTTACCTC GGGGGGTGGG GCAGACCTG GGAGTGGCC TTACAGACCA GCCACAGTA TTTTATAGC AATTGACAC  
ATTTTATTTAC AAAACAGTC TACATTCATT CCTAAAAGG TCATTTTCAG TAAA



SEQ ID NO:112: (Length of Sequence = 398 Nucleotides)

CTGATCTGAC AGGAGGTGTA GGTGAGGCAG TAATGGAAGT SATGGGGAAAC AGCTGTAAAT ACAGATAAAG CTTTACTCAC  
TGGCCCAACC ACTGCTCATC TCTGCTGTA CTGCCAGTT CCTAACAGAC AGCAGACAGC TACTGGTCTG TSGCCCAAGG  
GTGGGGACC CCTGACATAG ACTAAACAT TCACAATGTT TATATTAAAC AACTTATTCC AAGTTTCCAT TTTAGACTCT  
GGAACATCTG ACATGGTGAA TCACAGGTA GTAAATSGA AGGGAGATAA CAGACAATT GACGGCCGTG GAAGACGCAC  
TGGGCGGGCA CTGGTGACGG GTCTCGGAC AGACTTCACA TCTCCAGACT GGCACAGTGG GCTCACACCT GCCTCCCA

SEQ ID NO:113: (Length of Sequence = 444 Nucleotides)

ATCAGTGTCA GTGTCTAACA GAAGGGTCTG TTAAGGATGC TTCTGATTTA ACCAAAAGAT TAAGCTTCAG AAACAATCTA  
ACATACTCAA AGGAGCACCA AATTATCAAC CGGCTACAG GATGCAAGG ACCTAAACAA CAGATGTCAA AGGGCTTGTA  
AAAAGTGGAG CCAGCAACCA TTCCACTTGA AGGAATCCAT CTCAGGGAAA TGCTGGAATC CACACACAAA AGCAGGTGTG  
CAAATAATCA CTGCAGCAGC CCTTCTAATA GTGAACAACA GAGGCAATCC AAATATCCTT CAACAGGGAA CTGAGTAAAT  
ACCAACTATG GGCATATCCA CATAAGGCTC TCTGCAGTCA TTAATAAGGA TTGCACTTAC ATGCATGTCT GCCATGGAGG  
TCTTTCAGGC CAATGGTTCC ACTCGGAAGG GCAACCACCA ATTA

SEQ ID NO:114: (Length of Sequence = 472 Nucleotides)

TGGGGCCCCA ACGGAGACCT GGGGATGCG GTGGAGGCG GAGCGGAAGG CGAGGAGGAC GGCTTCGGGG AAGCAGAATA  
CGCTGCCATC AACTOCATGC TGGACCAGAT CAACTCTGT CTGGACCACC TGGAGGAGAA GAATGACCAC CTCCACGACC  
GCCTCCAGGA GCTGCTGGAG TCCAACCGGC AGACACGCTT GGAGTTCCAG CAGCAGCTCG GGGAGGCCCC CAGTGATGCC  
AGCCCCTAGG CTCCAAGAGC CCCCACCGG GACCCACCC TGCCCTCCCTG GGGCTAAGCT CTGGCCTGGG GCACTCACC  
CCTGGCTTAG ACAACTTCTC AAGGGCTTGG CCTTCAGGG ACCCTTGTTG GTCTTGCCTT GCTGGGGCCA CCTTTCTTG  
CTTGGGGCTT CCCCTTGGC CTACCTTGGG GCAAGCCCC TACCAACTTT GGATTGCCCTT CTGGGGGCC AA

SEQ ID NO:115: (Length of Sequence = 293 Nucleotides)

CINGGGGCCA TGTGGCTGAT TTCCATCACC TTCTTCCAT TKGCTACGGC GACATGGTGC CCCACACCTA CTGCGGAAG  
GGTGTGTGCC TKCTCACTGG CATCATGAGA GCTGGCTTTA CCGCGCTGT GTTGGCTGTG GTGCTCRCA AGCTGGAGCT  
CACCAAGGCT GAGAAGCAG TGCACAATT CATGATTGAC ACTCAGCTCA CCAAGCGGT AAAAAGCAG GCTGCTAACG  
TTCTCAGGA GACGTTGGCT CATCTACAA CATACCAGAG CTGGTGAAAG AAG

SEQ ID NO:116: (Length of Sequence = 448 Nucleotides)

TTTGAAATTT TAGAGGATAT TTATTTCTCA GGAAGGTGCA CAACAGCTGG CAGGCACTGC TTTCCCTGCT CTAGGGGATT  
CCTCTCTCT TTTCCAAGAA ATCCCCCTC TTCTTAGAAG TGCCCATGG AGGCTGGGAT GTGAAAAGAA ACCATACACA  
ACACTCCAGA GCCTTAAAAA AATAAGCAA CAACCTCTC CACACGAATA CACTTACAAA ATAAATAGAC GGATAAAGA  
GAGGCCAGT GCCTCCATC CCGGCTGTAG GGCTGCTTGG GGATAGTGG GCTGGGTGGC TGGTCCAC TTCTCCAGC  
CAGGATGATC CAAAGGCTAA ATGGGATGGA AGGGCCCTGG CTTCAGAGA GAGGGTGGG CAGGCTCTC CTGGTACTCA  
GCAGGGAGGA CACTGGGGCA CCGGTAGGG TCCAAGGCC ACTTAATA

SEQ ID NO:117: (Length of Sequence = 551 Nucleotides)

GAAGCGGAG CTGCTCTGT CCCCAGGCT GGAGTGAGT GGGAGATCT CAGTCACTG CAAGCTCCG CTCCCGGTT  
CAGCCATTC TCTGCTCA GCCTCCGAG TAGCTGGAG CCAGCGCC CAGCTAAAA AACTTTTCAA GTCAATATTA  
CTACGATTTA ACATTAGAT GTGACATGT GATTTAATC CTATAGCTAA AATAGCTCAA ATATAGTGT TCATGTGCTT  
GAACATGAT CTAACCTGA CAGGATGAAG GAAAGTAATA TTCTTTCAGT GTAGTTCAGG AGAGCATTTG TTTTCTTTT

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TACCAATTAA CCCATCATTG CTTTAAACA ACCATCTGAA GGAGCAGAGA GGCAGGGTAG AAGACAGAAG GGGGTCTATG  
TGGGTACTAA AGATGTTTCT GTTTGTAAAT ATTGTGTGTG TGTGGGTTTA TGGTTTGCTT AAGGGATCAA AACCTGGAAA  
AAATGGGATT CCAGGAATGG CTCGTGTATT TTTGCTGGGT TCCAGCTTGT AATGCCTACT GCCTTGGTTC A

SEQ ID NO:118: (Length of Sequence = 426 Nucleotides)

CCCCACCCA AAATCAAAAC TGAAGGTAGT GTCAGTGTAT ATATGNGTTC CCTTGTGCTG AAAGTCAAAG CAGCTTCATT  
TTGGGGCCTC AAGAGCTCCA GCTCTGGGCT CTTCACTCTT AAGCCCATGG GCAGTGCCCG CCCAGTGGTG TGTATAGATC  
GGAGSCTGAG GGCTCAGCC TTAGCTGAGC TGTGCGTGC TGGGGAGCCT GTGCAGGAGG GTACAAGTAG GAAAGTGCCA  
TCTGCATGGG AAGAAAAATG CAGCGTCTT GGTAGTGGG ATGGGGTCCA GGAGACCCAG GGAGCTTGCC CAGAGGGACC  
TGAGTGGCAT TCCTGTAGGA AAGCAGCCCA GATCTTGGG CCGTAACGGA TGTCTGGA GTTTTGACTT TGAACACCA  
GGTCCCATG TTAACAAGCT TCTGA

SEQ ID NO:119: (Length of Sequence = 434 Nucleotides)

TTTTTCGGTT AAAAAGGCCC AAAACTTTAT TTAGTTTCA GGGAAATATA AGATGCATGT AAACATAAAA TACAAAACAA  
AACCCAAATC TTACAGTCTA GAAGCATGCC AAGACAGAGC ATTTTCTGCA GACCAAAGAG TCCCGTCAAA GTGATAAAGG  
ACACCTGGAA AGTGGCAGGC CAAGGGGCTG GTCCCTTCCC CAAGGGCACT GCATTTTGTG TATGAGATTA AAAACAAACC  
AACTCCACTA TTAATAATGC TAGAAACATG GGATAGTTTA GCACCACCAT TGATTCTGGC AAATATTTCA GCACTCACAT  
CGACTGCACT GAGTTTAAATG TCCTTTCTCC AGTTTCTCTG CTGAGTGGG AAGGAGGGAA ACCTGGGGGG AAGGGGCTCC  
TCCTGACCCC ACAGGGCCAC TAGGAGCTTG GAGG

SEQ ID NO:120: (Length of Sequence = 276 Nucleotides)

AGGAAGTGT AGCAAATGCT ACCATGTGGA AACTCAACT TTATTTGCTT TATTTATATA TTTAACAATT CTAAAGTATT  
TACTTCTTGC TTGACAAAA AATGAAAAAT ATAGGGGCAC TGACTGACTC CTCTTTAGGA GAAAAGGGTT ATATGTACAG  
CTATGGAGAG TTACGGTTCC CCCTTTAACA AAGGCAATA TTAATAAAAA AGGGCTTCAT CGGTCAAAAA AGGGCTAAGA  
GCTGCAAGCA TTTATTCACA CTGTACATCG GGCCCC

SEQ ID NO:121: (Length of Sequence = 554 Nucleotides)

ATTTCTTCC TTAATCATAT CTGATGCTGG GATGTGGGTA ACCCCAAACT GAAGGCAGCT GCTAAATCTC AAATGCTAAA  
AAAATACTGC AATTTTGACA TCAGTGAGTC AGATCAATAC ATCCTCTGGG GCTGATTTTG CTTCAAGTT AGGATGAGCC  
ATCTCTAAG CTGCAGGCTC AAATGGGATT AACTGAAGTC TATACCTGGG ATGGGCCATG GACTGAGCTG TCCATGCAGA  
AGGACCAGGC TGTCCATGCC TTCCCTGCCC TTTTACTCAC CACTGCACAG CAGCCCCAGT GGGCTACTG CACATGTCTA  
GGAGAAATCA CTCTAAGAAA ACCAACAGGA ACAGGCTTTA GGCAACAAGA GACGTCTCAC TGCACTCTCT CCCACGTCAG  
AACTTGAGTA CTGGGTCTTT GCAGCTCAGA GCATTCCTCC CTCCCTTTC CTGCCCCGAA GGCCTGCTT TTCTGAGAC  
ATATGGCACT CCATGCTGCA AGTTTCAAGC AGATGCAGGT TCTTATGGG CTTTGTGCTC AAAGAGCTTT GTT

SEQ ID NO:122: (Length of Sequence = 238 Nucleotides)

CACCTAAGCA GGTAGACATC CGCAAAGTCA GATGCTTCC AACATGACAC CTGAACATCT TCCTTTATGC AACACCCAAA  
CATCTTGSCA TCCCCACCCC AGGAAGTGG GGGAGGAGT TATGATCCCT GGGCGCTTCG GCAGAATGGA GAGCTGAGGT  
GTCCCTCCCC TGCTAGTCAC CTACCAGGTG TCTGAGCAGC TGCACTCTCC CTGGCTCAAG TGGGCACTGT ACCTTTTG

SEQ ID NO:123: (Length of Sequence = 244 Nucleotides)

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ATCCAGGCTT TCATTCTAG CCAACCTCA AACACCACCA ACTACAAAGA AAATTAAAA GTCTAATTG TAACCTTCAG  
ATAAGTATAA ATTAGTTTTT TCTAGGCTTT CATTATTTGG CTCTTATAC AATCTATCTT GTAAAGTACA TTCTCTAAA  
TTTACATTAT CTAAAATTAA GGCTAAGCAT TATTAAATC ANTTAATCAT ACAATATTTT ATGGCAATAT GCACATATTT  
ATAA

SEQ ID NO:124: (Length of Sequence = 330 Nucleotides)

CTCAGCGTAT CATAGGCGTG CTCACCTCC TCCCACGCT CCGCCCCGC AGGCAGGTGG TGTAGGATAG AGTGGTGCAT  
GAAAGGGGGG AAGCCCGAGG GGCCCGCTGG GAAGGGTGT GCGCGTAAA GGGCATCCCA CTGGCACTGT GCTCANCCTG  
COGCTTCTG CTTAGCTCA GCCAGTCCG GCGCTGCTC TTCAATCACT TGTGTGTCCT TCTGCTGCAG AGCTAGTTGG  
CGCTTGGTC TOGATGTCT GCAGTGTGGC TGCCAGGTG CRAAGGAAGC TGCCCGGTG CATTCTGGGG GTGAGTAGGA  
GCGCTCTTT

SEQ ID NO:125: (Length of Sequence = 281 Nucleotides)

CCTCTCTCC TTGGTCTC CATTACGA GCCAGTAT TTCTTAAAG TCGTTGGCAG CCTGCACCT GCTTATCTT  
GGGAGACAG AGTTTGCATC CTATTACAC CCATAGTTT TGCTAACCA TGGTGAGAGG AACCATCCTT CCCAATCCCA  
ACCTCAACCA AAGCTTAGAA AAAGTGCCAT CTTTAACTT TCAGAATCAC TCATAAGTAA ATCTATAGC AGTCTCTGCT  
AATGCAAIT TCAATGTGTG CCGCTTATT AGGTGACTTT T

SEQ ID NO:126: (Length of Sequence = 266 Nucleotides)

CTTTAATGA TGTGGTCTG GTGGGATTA TAAAGGGAGA TGGACCCCTG GNAAGATGCT TTCTTAAAC ACAACCCACA  
CATGGGTCA CCATTCTCTC TTCTCTCC TTCTGTGGT GCGCGGAGAC CTGTAGGACC TTCCCTCCCT TTAGGGTCT  
GTAAGGCCCC TTTTCAGTCC TCAGAGTCA TTCTCTCTT GTGCTGAGG CCTGCAGTGG GGACCATATA CTTCTGGTGC  
TCTTAGTTG CTGTGCGTC TGT

SEQ ID NO:127: (Length of Sequence = 435 Nucleotides)

GTCTGGTCT ATTCAATTTG TAGTTGCGAG AAAAGGAATG AACGTGACT ATGGCAATTC ACGTGACGT GTGATAATTT  
AGTTTGTCT GAGTTTTCAC TCTTAGTAA AACCTAGTAA TCCTAATTAA TAATTAGTAA TGGATGATAT AGTAATTTT  
TTTTTTTTT ACTGGTCTC ACTGTCTTC GGGCTGGAGT ACAGTGGCTG ATCAGATTC GGTGCAGCCT CGACCTCCCT  
GGGCTCAGT ATTCTCTGC CTCAGCTCC CAAGTGGCTG GGGATTATGG GCATGCACCA TCAATGTCTG GCTAATGTTT  
GGTGTGTTT TTTATAAAGC CAAGGGTTT GGCATGTT CAAGACCCG GGGCTGGTCC TTGAACCTCT TTGGGGCTTC  
AGGCAAGTCC TCCACCTTC GGCCTTCCC AAGT

SEQ ID NO:128: (Length of Sequence = 471 Nucleotides)

TTCCCTTCCC AAGGACTCGA CCGAGAACCC GCATGTACT CGGAGATCCA GAGGGAGGG GCAGACATTG GGGGCTGAT  
GGCCCGGCA GAATACAGAG AGTGAATCC GGAGCTCATC AAGCCCAAGA AGCTGCTGAA CCCGTTGAG GCTCTCGGA  
GTACACAGGA GCTCCACCGG GAGCTGCTCA TGAACACAG AAGGGGCTT GGTGTGGACA GCAAGCCAGA GCTGCAGCT  
GTCTAGAGC ACCGCGGGG GAACAGCTC ATCAAGAAGA AGAAGGAGGA GCTGGAAGCC AAAGCGCTG CAGTGCCCT  
TTGACAGGA GCTGCTGAGA CGCAGCAGA GGCTGAACCA GCTGGAATAA CCACAGAGA AGGAAGAGGT TCAAGCCCC  
GAGTTTATTA AGTCAAGGGA AACCTTGGGA GATTCCACA CTGACAGAG AGAGAGAGAG CTTTAGGGCC A

SEQ ID NO:129: (Length of Sequence = 186 Nucleotides)

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GCCTTAAACA TCCTCTGCCA ATRACTGGCC TCAAATCACC AGTGGAACCT TTTCAAAAAA TACACCATTG GCTCTATGTA  
GTTCTACTGA TCTRAAATAT CCACGTGTGG GCCAGGAGCA CTGGCTCATG CCGTAATCC CAGCATCTTG GGAGAGCGAG  
GAAGGAGGAT CATTTRAGCC CAGGAG

SEQ ID NO:130: (Length of Sequence = 307 Nucleotides)

ATAAAATACT TAGGAATATA CCTAACCAAG AAGGTGAAAA ACCTCTCCAA GGAAACTAT GAAACACTGC TGAAAGAAAT  
CATAGACTAC ACAAATACAT TTCATGCTCA AGGATGGGTA GAATCAATAT TGTGAAAATG GCCATACTGC CAAAAGGGAT  
CTWCAAATTC AACGGTATCC CCATYAAATA CCACCATCMT TCTTTACAGG NITCGGAAAA GGAATTCTAA AATTCATATG  
GGACCCAAGA CGGGGGCCGC ATAGCCCATG GCGGCTTAG SVAWAGGGA CAAATCTGGG AGGCCTT

SEQ ID NO:131: (Length of Sequence = 184 Nucleotides)

CCAGGTTGGA TGGAGTGCAA TGGCAGATC TCGGCTCACT CCACTCCC AGGTTCAAGC AATTATCCTG TCTCAGCCTC  
CTGAGTAGCC GGGATTACAG GCACGTGCCA CCACCCCAG CCAATTTTGT TATTTTGTAGT AGAGACGGGG TTTCACCGTG  
TTAGCCAGGA TGGTCTCAAT CTC

SEQ ID NO:132: (Length of Sequence = 270 Nucleotides)

GCNGGAGGGC GTCGAGGGCC AGGAGCTATT CTACACGCCC GAAATGGCTG ACCCCAAGTC AGAACTMTTC GGNAGACAG  
CCAGGAGCAT TGAGAGCACC CTGGAAGACC TCTTCGGAA TTCAGACGTC AAGAAGGATT TCGGAGTGT CCGCTTGGG  
GACCTGGGGC CCGGCAAATC CTTCCGNNC ATTGTGGATG TCCACTTTAA CCCACCACA GCCTTCAGGG CACCCGACGT  
GGCCCGGGCC CTGCTCCGT AGATCCAGT

SEQ ID NO:133: (Length of Sequence = 529 Nucleotides)

CTTGCACTAC ATAGCATGT TATTACTGAT AGCTTTATAA ATCTGCCAAA TAACATAGAA TGTAGCCTCA AAAGGATGTT  
CGAGGGTTCG CAATCTTTCT TTCTCCACCC AGTGGTGTGG AGCAACTCTG TGCTTTAAAG AGGGCACCAT GGAAAGAAAC  
AAAAGGAAT CTCTTTCAAA ATGCTGGAAA TTAGGCTTAG CTCACTACTT TCAGGATAAA GACAACTGCA TCTAATTAAG  
TCCACTCCAC ATTTCTTTGG ACTCTAAGTA TTCTGCACCT GAAGGCTAAA TIGAAGTGGC TCAGCCCTAT CTTTTTTGCC  
ACATCTTTAA TTACAAATCT ATTTCTTCTT CTTTCATTT ACTTCTCTTC TCTTAAGTAA GAAATGTGGG AAATGAGACT  
GGCAGTTTGG TTTGTTTGCA TGTGGGTGTC CATTAGGCGT CTCATCCTAT GGCCCTTTT GGAAATGTTG CCTTCTACT  
ACACACCTGG GAGGTTTCCC CAAGGCTCAA CCTTTTGTCT TCAGGTAAA

SEQ ID NO:134: (Length of Sequence = 437 Nucleotides)

GACGGTGGCG ACGCGTGCAC CGGGGATGTG TCCTGCCACC AGAGGAGGTG TCGTGGCGG GGAGCAGAGG GGCTTTGTTT  
CCCAGGTGAA GGTGCGGCTT CTCACTCTT AGAGGTGCGT GTGTGGGTGG GGTGCTTGC TGTGAGGTT TATGCCGTGA  
ACTGACAGCT GTCCCCAAG CATGCTGGC AGTGTGTAGG TGTGTGCGG GCCACCGAG AGGAATCCTC TGGGCTTCTG  
TGGTTCAAGT GGGGCCAGC GCAGAGCTCC ATGAGTTGCT GAGCAGCCAG CCTTCAGCA TCTCTGGGT TTTGGCAGCA  
GGAGGCTCC CTTGTGCAA TTCAGGGGCG GTGGGGGCT GGGGGCACTC GTAGCAAGGT AAAGGAGCCC CTGCTCAGCC  
CCTTGTGTC TCCCCTTCT TGCAAGAGGG GTAGAGC

SEQ ID NO:135: (Length of Sequence = 534 Nucleotides)

GGCATTGTTT TGGTGGGTGT GTCAAGCTCC CAGAAGACTG AATTTATGTT AGGATCACTC GCAAGGCCTT GTGAAGCACT  
CTTACCTAAA ACAAAGAAA TATCAGGGAC TTTTGTGAC TATTTACAAC TCAGTTTAC ATTTAAATTC AGGCAGTGT  
AATATGCCAA GGTAGGGAAT GTGCCTTTT CAGAGTTGCC CAGGAGCTC TGGCTGGAC ACGGAGAGGC AGGTTGCGG

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TAAGGCTCA CTCGGGCTG TGAAGGCTC TGATCACA GAAGCAGGCC TGCCAGCCT GGGTCATTG CTGTCCGCTT  
 TTCTCTGTA CCACAAGCAG CCTGAACAA CCAGTATGT TCTTCTTCT CCAGATAGT AAAAAGGGTG TCAGATAAA  
 CCCACCTAG TGAATGGGC CATCTCTAA ACTGGGGTAC CTCACTGCAC AGGTTCTAGG TAGGCTTTCC ACTTAATCTA  
 ACTTGAGGCC TACAGGTACC CTGTAAAGTT AGTGGGGCTT GTCCTTGATT GTGG

SEQ ID NO:136: (Length of Sequence = 279 Nucleotides)

CAGTTTGGAC AAAGTAGCAT AGTGACTTIN TTCCTACANT GACTTTGGGA GAAGTINGCA GTTCTGGCA AAGTGACGCT  
 GGGCTGTTG AAAAAGGCAA GCTTAGCCTA GGCTGCCATC TTAACACATT TCGAGGCTGT AGCTTCTCTA GGATCCTTTG  
 CCTGTGGTCT GGTGGGCGGC AGTGCCCGT CTAACAGCTT TTAACCTGTC ACTTAGTGCC TGAGCACCTA TGGCTGTGAG  
 AGATGCTAGA TACAGAACC TGTCCTGTAC CAGTGGGG

SEQ ID NO:137: (Length of Sequence = 518 Nucleotides)

CAATATTTA ATGGAGATCT TCCTGTGTG TCCTTATAT GTCTATCGT TTCTGGGTG TTPAGGAGAA TCTGTACTAT  
 TTCAGCATGT CCTCTCCAG CAGCAAAATG AAGAGGAGAA CTAAGTTGTC CATTTAAAG GTTTGGATTG CACTTCTCTT  
 TCTTAACAA TATGCGAGTG GCTCAACTT TTCATACCA GCATGCATA TGAATGGGTG CCCAGTGGTC ACTATCTAAC  
 TGGTTGACTG AAAATCTTTC ACTGAGAAGA CGGCTTAGTA ATTCTGAATC TCCTTCACAG GCGCTTCGGT GGAGAGGAAA  
 ATCATCTACC CACTGTGTT CCTGTCTTC TGTGACACTG CTCATGCTTC TCIGCCAGTT TTTCTGTTT AGGGTATTTG  
 GATTTTGGAG TAGTCTGGAG CTCCTAGACC CAAGTATGGA TTTATTACCC ACTTATCTAC CGATTTGTGA TACTGAGGAT  
 CCTATCCAC AAAGGGGTGA AATCCAGGAT CCGCCTTC

SEQ ID NO:138: (Length of Sequence = 266 Nucleotides)

GATGTCAGGC ATGANOCACT GCGCCAGTC GAGTGGTAAT ATGTTMAAG GAAACCTTTT TCTGAGCAGG TCTCAAAAGA  
 GAGGTIAAAA TACTGAGTAG ACCATMCTGT AAACAGATGT MCTGTTATYC GGGCTTTTAT ATTCCATTTA TAAAGCACAG  
 GCAGAGCTCA GAGTAGATTT AAYGTAACTC TGAAGGGCAC TAGGATTTTC AGAATGGTAA ATAAGCATTG GCTTCACTT  
 AAATYCAAT CTGCATTGGG CTGTGA

SEQ ID NO:139: (Length of Sequence = 341 Nucleotides)

ACCTCGCTCA CGCTCTGAC CACCGACAGG CAGAGCAAAG GATGCGGGAG TTGCTCTGC TGCCATCTA AGGGGAGGTA  
 GGCAGAGAAG CAAAGGCTC TGCTCTOCT CCATCCATCC CGGTGTGCTG GCGCCAGCG AACAGGAGTC CTTCAACTAT  
 TGCTGCCAG AGACCCAATT TTAGGGACTG TAGTCTGCAT CTGGATGAGC TGGGCTGTAG ATTGAAGTCT CAGAAGCAGG  
 GAAGGTTGGA AGGGGTAGGG TCCAGAGCC CATGGAGTTA TTGCTGAGAA GATATGCAGG GGACACATTT CCCAGGGGCA  
 GAGTAGAAGC CCTGGGCTT G

SEQ ID NO:140: (Length of Sequence = 234 Nucleotides)

GTGAAGGGAG TTGCAGAATC AAATTGCTAC ATAGGCCAAA CAAAAAGAA GGCTTTTCA AAAACATTA AATTCACATG  
 CAGTCTCAGA GACTATTTAG GCAAGTTCAG AGTTAGGAGC TTTTAGGATG TGGGANTAAA ACTTTAATKG GAGGGGAGGG  
 CTGCTTCTG GAGAAGGAAG AAGCCAGACT TGTTAGACAG TACTCTTAAC TCCTAGCCA GCTTAGOGTG CCT

SEQ ID NO:141: (Length of Sequence = 354 Nucleotides)

CTACTAGGT TAGCAACTGC AGGAAAATT TCTTCACTT CACTGAATTT TAAAGAGAGA ATCTGCTCT TATTTCTCAG  
 AGAACTTAG GTGAAAAGTA AAAGAGAGGC AAAATCTTT TCCTCACTA GATACTTTA TTTTATCTC TTTCTCTACT  
 CATGTGCTTA ACTGGTGAAA TGATTCTGTA GAAATAGATC CTCTGATTC TGCTCTCAT TTCCTTATGG CAACTACAAC

AGGAGGAATC CAGCTGGAAA TGCCACTAAC CCCACATCCA GCACCTGAGA GAGGAAGCCA GTCGGAGCGC CGTGCTGGGC  
TCACTCACTC TGGGCTGCG CACTGGGGTT GTGG

SEQ ID NO:142: (Length of Sequence = 373 Nucleotides)

GTTTTTGCAA CACTTTTTTT TTAGTTTATT GGGTGCAAAA TCCCAAACCA GGATATGTGT ATGTCGTGTG GTTTATGTTT  
TINATTGAC CTTCCCTCT TTCAACCTAC CCCCTTTTAT ATCTAATGTA GAAAAAGCGA AATTGAATCT GGAAAGCAAA  
CTGTTGTATA TAGTTGCGGT AACAAATCATG AAGAGAGAGC CGGGCTGTCC AGTTGTTTTT GAGACAGAGT CTCCTCTGT  
TGCCAGGCT GGAGTGCGT AGCATGATCT TGGCTCACTG CAACCTCCCC CTCCCTGGGT TTAGGCGATT CTCCTGCCTC  
AGCCCTCCCA AAGTAGCTGG GATTACAGAC CGTACCACC ACAACTGGGC TAA

SEQ ID NO:143: (Length of Sequence = 262 Nucleotides)

CCGCACCTCG GCCAGAGGCG GCTGCAGCAG CTGCTMCTT TTCCCTGCCG CCGCCTCTCC AGTCCCTTTT TTAATTACCA  
CTCCAMCTGC TGGGAACGGG CGAGAAAGAG GAGGAGCGA GAAACTCCCA CCGACCCACA GAGGGAGCAT GATTTOGGCA  
ACTTCACCTA TCATTCTGAA ATGGGACCCC AAAATTTTGG AAATCCGAC GCTAACAGTG GAAAGGCTGT TGGAGCCACT  
TGTTACACAG GTGACTACAC TT

SEQ ID NO:144: (Length of Sequence = 384 Nucleotides)

GGAAGAGCGG GACCCAAACA GTGTGCTGG GGAAATTTTT CCTGTCCCC TTGGAAGGC TGAGTGGGTG ATGCAGCACA  
GGAACAAGGC TTGGAAGTCA GAGGTCTCAT CTTCACTGTN ACAAAGCATA AAGGACTTGG GGTGAGCGT GTGINTGGC  
TCAAGTGACC ATGCAAGTCC TGTCACCTCC TTCTTAAGAC CCCATCCTTC TCCAAGTCC TCCACAAGAG CTACCTTCTT  
CAAAACAATA ACAGAAACAC ATCAAGCTTG GCGTCACTG AATTCAAGTT CTGATTTCTC CCGTACCCC AGCAACAGTG  
CCAGTTTGA TTGTGACACT TTGACCCAGC ACTTGGTTTT GAATGTCTT TTGGCTTGT ACCG

SEQ ID NO:145: (Length of Sequence = 324 Nucleotides)

CTACATGGAA TCATAAGTCT TCCTAAAAA GGAAGACAGA TTTGAAGACA GAGGAGGAAG GTGATGTGAT GATGGAAACA  
AGGGGAGAAA ACGCAATGTG ATGTGGCCAC GAACCAAGTA ATGAGGACAG CCTACAGAAG CTGTCAAGG CAAGGAAACA  
GATTCTCTC TAAAGTCCCT GGAGAGGGCC TGGCCATGCT GACACCTTGA TTTTKTCCA GCAGAAACTC ATTTTGGATT  
TCTGGCCTCC CAGAAAAGTA AGGGGGTAAT GTGCTTTTT ATGTCAGGTT TKGGGTAATT TGTATTATGC AGCCATCGGG  
AAGG

SEQ ID NO:146: (Length of Sequence = 355 Nucleotides)

TTTGCTCTCT TCCTCTCTTA TCCAAGCAAG GGTGTGGTGA CAATGACCTG ATCGGGGTTT AACGCGGCT CTGTCTGCTC  
ACCAGACCTG GGTGCTGAG CTCTGACCAG CCTGGGCAGC CCAACCCACA GGAAGTGGG TTTCATAGCT GGGTCTTACG  
GAAGGGGTGG AGGCTTTGGG AGTGGCAGCT CCCCCTCC CACCACCCA AGCCAGAGAA TGGGGCAAC TTGTATGCAT  
GGCTTATCTC TAAATTACTA ATCTGCTTCG GACCAGACTC ATCTCTACAG TATAGAGTTA GAGTTATTGC TTCTATGACA  
GGTGTCCAG AAGCCCTGGG TGGCTTTAAA GTCTG

SEQ ID NO:147: (Length of Sequence = 337 Nucleotides)

CAGTTTTCTG AGTTCCCGTG TGCTAGACTG GCCAGAAGAG AGGGTCTGGG GCCTGGTCC TCGGCCACTC TCTCTGTTT  
CTGGCCTCTT CTCCTTCC TCCCGTCCAG TCTGGTTTGG AGAGCAGGGG CTCTCTACA GCACCTCAGG GAAGGGAGGA  
GAGATACCTG CTGCTTCCAT TGCTTTTCCC TTCTGGAGT CGATGCCTTT CTAAGGGTGG GAGCTGCTCC TTGCAGGGG

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GGGTCACTTT CCCAGGCCAT GCCGGGGTGG GCATCTATG CTAGGGCTGG AAGCTGAGGC TGGCCGCCAA CTGTGGGGCT  
GGGGTGGGG TGGGTGG

SEQ ID NO:148: (Length of Sequence = 278 Nucleotides)

GGAATCAGAT GCTCAGGTGT CCAAGCAGGG ATAAGGACAG GCAAAATAAA TAACCCGCC AACCOCATC GTCACCTGCG  
TGCAACACGA CACAAAGGTT TAAAGATCTG GGCCCAAGA CTCTGGGACC CTTCAGCAA GTCAGGTGGA AGAAGGTTTC  
CCCCCCCCC ACCAGGCCTG TTTGTCCAG GTTGCCTAG GATGGAGGCA GTTCAGACC TGGGTCACTG ATGCTTGATA  
GGAAGATCTT TGATATCAAT GGCCTAAGCT CTGCTCAT

SEQ ID NO:149: (Length of Sequence = 368 Nucleotides)

TTTTTTTTT GTTTTCAACA AACTTTACTA AATAACCTG GAAAGGCAAT GAACGATCTG ACAATTTAAG CTCTAATGAT  
TTAAAGCTCA GCTAGAAGAA AGTGAGGCAT GACATATACT GTCAACGGAG GGTGAAGGAG GCAGATTCTT GGAAATGCAA  
TGATCCACA CATTTGCTTC AAGGAGAAC CTGCAGACAT ATTTTCAGGT CTGCTAAGT AACAACTGTT TATTTGTAAT  
CAATACATTT GGGGAAAGTC TGCTATGTAG CTAAGGTCAC TGTGACCACA GACCAACAGA TGGAAAGGAA AAAGGCACTG  
GACCAGCAAG GAAAATACA TCCCCATCCT CAAAAGAATT TTAAGGTG

SEQ ID NO:150: (Length of Sequence = 367 Nucleotides)

TTGTGAAATG GGCCTGGGTA GATAAGGAAA AGAACCTCCA AGAGGTTAAG TGATTTGCGG ATTTGCCTAA ATTATACAGA  
AGAGTCAGCA CCAGTGCCCA GGCCTTCTGA TTCTTAGTGC AGTAAACACT AAGCACCATC ATTCCATTTC ACCACACTCC  
TGCTTGCTG TTGTCTCAG CTAAGAAAGC CTACCCCTGA GTTACCTCT TCCATCTTAG AGCCTTCCTG CTGCTGTCT  
GCCCCCTGC GATGGGGACT TCTTTGGCCC TTCTCACCA GCCAGCCTC TGCCCGTTT CTTCTCCTT TCCACTGCG  
CTGAGCTCTT TTCTCTTCC GAGAAGCCTT TCCTCATCT TTCTGG

SEQ ID NO:151: (Length of Sequence = 366 Nucleotides)

CCCAGGGGC CGCTCCCTC CTCTCTCTC CATAGGTGGG GGTGTGGGC CTCTTTTTT TTTTGTCTT GGAGGGCAGT  
TAACTTCTC CATTTGCTC TCTCTTACA CCAAAATGCC AAAGGACACT TTCTCTTCT TTTTGGGTA GTTGCAAAA  
AAAAAATTC CTATGGGTTA CTGCACTTT TAAATACCTT GTAACTTAAA GGCAAGTAG TATGTCAGT TTTCTTTTCC  
CTGTAGTTA CTTTGTAGGT TAAACATCTT TCCATGTCT TATTTGTCAA ATACAGTTC TVCTTTGTA CAATGTAAAT  
CCTAATATGG ACCATTTTC CTAATGGGAT TACCGATTT TTTAAA

SEQ ID NO:152: (Length of Sequence = 269 Nucleotides)

GTTATCTGG CAAGTGCTTT CAGGGCCCTC CAGGGTTTGG CTGGTCACCA TGGAGGGGG GTTCAGGTGC TGAATTTAGG  
GACCCAGCA TCTCACAGGT TTCCCTTCC ATCTTTCCA GTGGCCTGT GTCTGAGCAG GTGTGCCAG GTGAGGTGT  
ATCCACTGT TCTGAGCAGG TGTGCCAGG TGAGGTGTA TCCACTGTGT GTGAGCAGGT GTGCTGTGT CAGGTGGAAG  
TGGGATATN TGGGCACCTG GGTGCCATT

SEQ ID NO:153: (Length of Sequence = 260 Nucleotides)

TTTCAGGATT TTATTTAAA TTTATTGTAA TGGGTCGCC GCAAAAGGAA GGGGTGGAGG GTGGGTACA TGCAGGGGAC  
ACAGGAACAN GATCCACATG GCCAGGNC CACTTCTTC TCTGTGGG AAGAGGGATG AAAAGACAAG ACCAGGGCTA  
NGAGCTGGG TGAAGAGGG GAGGGGNAAC ACTGGCTGCA TTCCCNAC CCCANGNC ACCTATAGG CCTGGACCA  
TGGGTACCC TGGGCCCTAG

SEQ ID NO:154: (Length of Sequence = 405 Nucleotides)

TGGAACITGT GAGTGGGGAC CCATGATGTA TGGGTCTCAC CTGACTTGAG GTGAATTTTG GAGTGAAGGG COCTGAGGTC  
 AGCTCCCAGG TCGGTCTGTC TGGGCCAGGC CTGGTTTTCA CAGGGGCTGA AGGATCCCAG TCCACCTGTG TGCATGTCTAG  
 GGCTCGGCCG GGAAGAAGCC AGCAAAGTCC CCCGTGTCCC TTGCTGAGTA TTCTGTGACA GACAAGCCTC CATTAAAGCC  
 ACAGCAGTGC TACCCACCAC ACACACCTTG CTGGCCCGGC CACCACTGCT GGCTTCAGCC CCTTNAGCAG CCCATGCTTT  
 AGCAGACCCT CAGATGTAGG TCAGTGGCCT TANTGTINTC TATCCATGCT GTTAAACTCC CTGCCTCCAA CTGGGGGTCA  
 CCAGT

SEQ ID NO:155: (Length of Sequence = 40 Nucleotides)

CCATGATCTT ATTTATTACA TCTAGTTTTT CTTTATACCT CTAAAAAAA GTGCCTTTTA GATTACAGC TTGTGCTTCT  
 AAAGCAAAGG TTAAACATC ATGCCCCAAA GGAACAAGG GTAAAAAGGA AGCTGCCATA TAAGCTCTTA AAANTGTAT  
 GTTACRAGGT TCTAAATCT CTTCAGCACT GGTGTGTTGG TAGATTGTAC GACACTGACA TGGTGCTTGG GAGGGTCATT  
 TATCTGATGG TTGAGCAGC ACCATGGGAA AGCTGCCAG ATGGTCTACT GAAGTCTTG GCTGTGCACA GAATGGCCCC  
 AAGGGCCAGN AATTCATGAG TCCGGGAAC TTTGNGGTC CTACTCAAT CTCCTTAGTG CTAAAGNTTC AGAGTCTCAA

SEQ ID NO:156: (Length of Sequence = 443 Nucleotides)

GTCTCTGGA TTGCTTCGTT GGTTCGAAC TTTAAGAATG GCAAACGTG ATTGNTCCG ATTAAGACAA GCTTTGTAGT  
 TTCTTCGTG TAAACACCAA ATCCGCTG GGCATGAGG TAGCAGAAGT GGGCCGCATC CAAGAGGCC CTTGAAGCCA  
 GAGTGTCCG CATGGTAGCC ATCGTCTGG ACTCGACGTC CATGTTGTG TTCAAGTTGG ACAAGACCAT GCGAGGTGC  
 GGCTCCAAAT CTCGCCATTT CTGCTCTCCA CAGCAGTGG ACGCGGCAG CATCCGTCG GACATGAGCT GGTAGACTGT  
 CTTCAGAGGG TGTGTGATK GGGAGGCTTT TTAGCAAACC TKGGTCATGA CTCGGGCGTG TGTCCGGCTG TTCCATCTTA  
 CTTGCAAGTA GCAGAGCGTG ACCCCACAAG GCCATTCTTA ATT

SEQ ID NO:157: (Length of Sequence = 383 Nucleotides)

ATTGGAAAGG GTTTTAAAG GAGTCGAAC CTGAGTAGAT TTCAAATTT TACAGCCAGG ACTACAGAAG TGCATCATTC  
 TAGAATGTT AGACCTGAGT AGCTTATACA CTACAGAGCA CTTTGCTTAT TTGAAAGTAA TTCAGCAACA GGTCACTTTG  
 GGATATAACC TGAACCTTTT TTTGGAGTGG GGTGGGTAGA CTACAGTAGA CACAAGGCT GGACATGCAG ATGCTTAGGG  
 GATTAGCGTT TTTCATAATT TGTCTGTTT GTCAGTTCAT TCCTGTGTGT TCTTACCTCT ACAAAGGTAC ATTACACATT  
 TTARGTTTT TAGTGACCTT TAACCATGTT ACTTGAAGCA TTTTGAATA TAAAGCTATT TTA

SEQ ID NO:158: (Length of Sequence = 241 Nucleotides)

TGGTSTGTGG CTCAGCTGCA GCGGCAGTA AGTGGGTSTC CAGGGGAGTG GACAAGCAAT TCTCTGTCA TTTGCAACTT  
 TCTTCAGGAA CTCAGATAAA GAACACTTGG ATAACGATGA TCCCTGTAGA GGGATTTTAT CTGTACCATC ACACATGGAA  
 GAGGAGTTTC TAGGTCAGGA AAGGCAGCTN CTAAGCTAAA GGTTCCTTGG TCCCTTNGTC CTGGCATGCC TTAAGGAGGG  
 G

SEQ ID NO:159: (Length of Sequence = 224 Nucleotides)

CTGTCACTAA TGGCTCACTA AAGGGCCAGC AGTTTAAATT ACACAGGTTG CACTAAAAGC TGCAGCTTTG GOCAGGCAAG  
 GTGGATCAGC CCTATAATCC CAACACTTTG GGAGGCGAG GCGGGCAAAT CACCTGAGGT CAGGAGTTCA AGACCAGCCT  
 GGCCAATATG GTGAAACCTA AGCCTCTACT AAAATTACAG AAATTAGCCG GTCGTGGTGG CACA

SEQ ID NO:160: (Length of Sequence = 377 Nucleotides)



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GGAGGCTGAG GCGGGCGGAT CACGAGGTTA GGAGATGGAG ACCATCCTGG CTAACACAGT GAAACCCCTGT CTGTACTAAA  
 GATACAGAAA ACTGGCCGGG CGTGGTGGTG GGTGCCTGTA GTCCAGCTA CTGGGAACT CGGGAGGCTG AGGCAGGAGA  
 ATGACCTGAA CCGGGGAGGC GGAGCTTGCA GTGAGCAGAG ATTGCGCCAT TGCACCTCAG CCTGGGCGAC AGASTAAGAC  
 TGTCTCCAAA AAAAAAAAAA ATAATAATCA AAGCTCTTGG ATTTATAGTT TGGTCCCCAG CCTGTGTTTG ATCTTTCCTT  
 TATCCTGTTT TATTGCCATT TACCACGTCC TTTTGGAAC ATCCCTTTCA ACTGCTG

SEQ ID NO:161: (Length of Sequence = 273 Nucleotides)

GCAGCGCGC CGGGCGAGGA GGCGGCAGGG GCGAGGAGGG GGCGGGGGT GGCGACCGC AGGAGGCCAA GCGCCAGGAG  
 GCGCTGTG CGCCAGAGAA GCGCGCGCC AGCGACGAGA CCAAGGCCG CGAGGAGCCC AGCAAGGTGG AGGAGAAAAA  
 GGCGAGGAG GCGGTGGCA GCTCCGCGCT GCTAGGCCCC CTTCGCGCGG GCGCGGCGG CCGCGGAGC AAGGAGGCAG  
 CCGCGCGGA GGAGCCCGG GNGCGCGAG ACT

SEQ ID NO:162: (Length of Sequence = 286 Nucleotides)

TTTTGGTCAA ATAAATCAGA GTACTACAAT CATCAAACAT CTGATTCATT TAACATGTGA GCATCTATAC CTGCCATT  
 GTGTGAATAT TCAGTATATA TCTCATACCT ATTCTCATGC CTTCATTTAT TGTGGTTATG GCTGTAGATA TGGAAAAAC  
 AGTAGCTGAG ACATTTTAT TATGAATAT ATTATACCT AATCAATCAG TCAGAAAATG CTTAGGAAGA AGAATGCAT  
 GATTGTAAAT GCATGATTC AACATGCTAC CCGCCAACA AAGTIG

SEQ ID NO:163: (Length of Sequence = 342 Nucleotides)

TGCCCCAGGA AGACAGACA TGGAGAACG TCAAGGCAGG AACCCACAG ACTGTCCCTT CCAGCCCCA CTCTGCCACC  
 TCCTGGCCCT GTCCCAATTC TGAGCCAAGG CTTCCCGAG GCAGAAGTTG CCTGGTCTC TGTCCCCA GTGACCTGAC  
 TGGGGTGAG GGAGAAGGAG GAGAGAGCCC ATGTGTGGTG TGTGTGCC CTTGAACTTC GTGGTGACTG CTTTGGGAG  
 CCGCAAGTG GCCAGAGCA GGGTAGCTG AGTTCCTGG AGACCCCTT TTTTCCCCA RGTTCGCCAG AGGGCAACGC  
 CATCAGTAGC AGTGTGGTGT TT

SEQ ID NO:164: (Length of Sequence = 392 Nucleotides)

ATTACCGGG CCGCGCTCC CTAAACAGA TCTACGACC TTAACGACG CCATGCTGAG GCTCATCCA TCCCTGCRGA  
 CGTATGCAGA GCGCTCACT GCTGCCATGG TGGAGTTCTA CACCATGTTA GGAGGAATTC ACCCAGGATA CACAACCTCA  
 CTATATCTAT TCACCCGCTG AAATGACTAG GTGGGTGAGA GGCATCTTTG AAGCGCTGAG ACCTCTGGAG ACCCTGCCCTG  
 TTGAAGGCCT CTTGGGATT TGGGCACATG AAGCTCTGG TCTCTTCCA GATAGACTCG TAGGGGATGA GGAGAGGCGT  
 TGGGACTGAA TGAGAAGATC GACACGGTTG CTCTGAAGG CACTTCCCT AACCTTCGGC AGAGAGGAGG GC

SEQ ID NO:165: (Length of Sequence = 406 Nucleotides)

GTTATAATTA TCTGTTTTA TTATTTATG TTTATCTCTT ACTGTGATA ATGTAGAAAT TAACTTTAC CATAGGTATA  
 TACATATTGG AAAAAGCATC TTATATACAG GGTGTGTAC TATCTGTGGT TTCAGGCATC CACTGGGGT CTGGAACAT  
 ATCCCTTGCA GATAAGAGG AACTGCTGTA TCCATAGAAT AAAACACCC CATCTTGAAG ATAGGAGGTT CTGTAAATTG  
 GGATGGGGTC AGGGAATCTG AATTTTAAAA GTTTCCTATG TGATTTGATG CCCAGCCAAG GGCTGGGGAC CACTGTCTTG  
 AAATATAATG CTGAGGAAGA TACTGTCTTT GGATTTCTT GTTAATTCG AGTGCAAAT CTCAGGCTGG AACCTTATGG  
 GCCTTG

SEQ ID NO:166: (Length of Sequence = 453 Nucleotides)

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GAAAACTTTG CCATGGGTCA GTTTTATTGG AAGTTCATTT TCCTGAATGT TTGGAAGAAA GTCTAGTGAC TCAGGATAGC  
 ATTCTAATT TCACAGAGTT ATTTTTCGGT TATGAAACAC AGATTGCCTT TGAGGTCTCC TGTTTCTACT ACTGCCCTC  
 ACTTTTATGT GGGCTCCTC TTTCCTTTGT TTCTGGAGAA CCTTTTCCTG TTCAATTCTG TTTTAATTTT CAGCAGTTT  
 TTTCTGTGT GAGTGAGGCT GTTTCCTAGC AGGGAGGTCT GGTIGGTCAT TTTCAGTTC ATCAGGGCTT CATCAGGGCT  
 TGCCACTTC AACCTTACG CTATAGNCC CTNTGCACCA TCTGCANTCT TCAAAATGTG CCCACTGGTT CGTCCCCTG  
 GANGGCTTG TGTAATTTG GGCTTTTAGG GGGGGCCATG GAAGGAGCAA ATC

SEQ ID NO:167: (Length of Sequence = 285 Nucleotides)

TTTACTCTTA AAAGTGTAC AACAGAATCA TGGACTGACA CAGGTAATGG CTGAGCCATA AGCAAATCGA GAAGTACAGA  
 AATGTCCAC CCCAAACAGC TGCGGAGTAC ACATCACACA GGGCTCTGG TCCCGGCTT CTCAGGTGCT CTGGAGTGA  
 GGATCCTTG AGGGAAGTCT GACCACTCT GTTGTCTACC TAGAGAGCAC GCCACTTGGG CCACCTACCC CCAACCTTG  
 GCCAAAGGAG TGAAAGGACC TGGAACCTGT CGTCAACCTC AGCAT

SEQ ID NO:168: (Length of Sequence = 327 Nucleotides)

CTAGAGGGCA CTCTGTATAC CCGTCAGCTC CTGGAGCCAT TCATTCTATG CTGGGCAGAC AGGCTGTGAG AGGACATGG  
 GGACGGTGA AAGGNTCCAA AGACGAAGCT GTNGTTTATC CTGTGTGGTT TTACACAGGG AATGATGAAA CATTGAAGGG  
 GTTAAATAAG CTTTTCCTAA AACATTTTCC CCTAAACAG GCTGGCACTA TGTCGAAGCT GCCCAAATTT GAGATTGATT  
 TACCAGCTGC GNCTAAGTCA ACTAAACCCA NGCCTTTCCG AAAGAGACAT CGCAANTGGC TTACCCAANG TANTGTCCG  
 TTTTCAG

SEQ ID NO:169: (Length of Sequence = 346 Nucleotides)

GGTGCTATGG AGAGCCGGCC GTCCTCCAGG GGTGAGCTGG GGAGGCTTCT GCGTTCCTGG AGTCCCGGG AGTGGCGCCAG  
 TTCCCAGCA AACCCCTCC AGAGCTGCCC CCGATGCAC AGACAAGGAG GGGCTTGGG AGTGACTTGA GGCTGTGAGC  
 GGTGCGCCCT CGGTGTGGG AAGTGAGTCC TCTGTGGCCA AGAGGTCAGA GTCGTCCCTG AGGCTGAGTC GAACACAGAC  
 CCGTGGCCCT CATAAAATTA AACATAAAG CACAAAATG GGCACAACCA GACAGCATTG GCTTTCAGAC AGGCAGGGAC  
 ACGGGGGCCC CTCTGTGTTG ACCTGT

SEQ ID NO:170: (Length of Sequence = 398 Nucleotides)

TTGACCTCAA CTACTGAGC AATGCCGTAG CTATGGAATA GAAGCATTG TTGCACTCTT TTTGTGAGCC AGGCCCTGTA  
 GGAGGGATTG TGGATGGCAA AACCTCAGG TCTGCCCAA TCCTCCCTT GGGGCTGGA GGTCTCTAG TTAATTGGCA  
 TTCCGGTGCT TAAGGCACT TTGGGTAGA GGTGTGGCAA GGATGGAGTG TCCAGACCTA TGATCCTCTA AGAAGTTTAC  
 CTTTAAAAA CAGCCACCA AATGGTGGTG GCGTGGGAG CAGGTGGTG TGAAGGGACT GGGGTGTCT GGCCATKGCC  
 ACGTACCAGA GGAGACTCTG TGAGCCCTCT CCTGCTGA GGGACACTTA ACTTTTATAG CACTACATAG GTCAACG

SEQ ID NO:171: (Length of Sequence = 321 Nucleotides)

AGACAGCATC TGGCTCTGTC ACCCAGGCTG GAGTGAGTG GCGCAATCTC GGTTCAGTGC AACCTCTGCC TTCCAGGTTT  
 AAGTGATTCT CTGCTCAG CCTCCAAAT AGCTGGGATT ACAGGCATGT GCCACCATAC CCAGCTAATT TTTGTATTTT  
 CAGCAGAGAC GGGGTTTAC CATGTTGGCC AGACTGGTCT CGAAGTTCTG ACCTCAAATG ATCTGCCCAT CTAGGCCTCC  
 AAAAGTGCTG GGATTATAGG TGTGAGCCAC TGCGCTGGC CCTTGGGTAA ACATTCAAA TGCAMCCAAC CATTAAAGGT  
 A

SEQ ID NO:172: (Length of Sequence = 293 Nucleotides)

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GAAACTTATA GTCTTGCCCTC CCAACCTTCT GAACACTCCA GTAGAAAAAT CTTCTGGCCT ACCTTTATCA CCCCACGACC  
TACTAGCATT TCTTACTCTC AAAAAAATC TTTTCTGAAA AATCAAGACA GAGTGCAAAC AATCAGCATA ATTTTATTAT  
GACARAACIT TTAAATTTTA TCCCCCTCTC TGAGAGTCT GCTAGGACTC CTTGAGATAA GTGAAAAAGA AAKTTTTTAA  
AATTTATTCT CAAATCCGAA TTCCAATCTG TATAAAAAGG GCGATTCTCC CTC

SEQ ID NO:173: (Length of Sequence = 282 Nucleotides)

GCTTGGTCCC GTTCTCAGG AAAAGGATGG ACCTTCTCTT CTCTCAGAT GGTCCTTCC ATTCCCCTGA AACCTGCATG  
AGAGCTCCTA ACATGTTTCT CCAATGCAAT CAAGCCTAGA CTCCAAATGT CCTCCAGCT CACCTCCATC TATGCTATCTC  
ATCTCTGGAT TTGGTGATCA GACTCTATAT TGACAGTAGG ATCTCAAACC CTGCATCCAT CCTCCTCCA GCAAGCCCTG  
CTAGCCACAT GAGGAACAAG TTTCGGTCTC TTCATGACTT CC

SEQ ID NO:174: (Length of Sequence = 353 Nucleotides)

CAAGAGGTGG GAGAGGTAGG GGGCAACTAC AGCTCCCCAC CAGCCCCACC AGGGGAATG GACCCCTCCC TGCCTCTGTC  
CCAAGTGGCT CCCCCTGTAT TATGGGGGGG ACTTTGTGCA AACTCTGCCC CGAGGGGGTG GGGAGGGTGG AGGGTGAGTG  
TGAAATGGCA GCGGTGGGG CTGGCAGCTG TGCTACTGGG CACTGGGGGG CTGTAGGGC TCCAGGAGGA GGGCCGAGAA  
GGTGTGACC TTGTCTGCC CCGCACCTC ATGGGGTAAC AGCGGCAMTT TCACGATGTG GAAGTTCTTC ATACAGGTCC  
TCCAATCTGG TCCAGATACT TGGCCTGGGT TCT

SEQ ID NO:175: (Length of Sequence = 394 Nucleotides)

GCCCATGCCC TTGTGTACAT AATCTTAAT ATTTATATAT ATTGATATAG AATTCTCTCT ATAATATATG TCATAGAATC  
TCTCTTGGGC CTGGGTGGG AATGTGACAT TAAGAAAACA TGCTAAGACT GGCCAGAAA ATGGATATTT CCCAGACCTG  
GAGGATGGTG TGTGGGATGT ATAGGTGAGG TCGTGGAGAA GATAATAAAC TCATTCCCA AGATACCCCTC TTCAACACAA  
GGACAAGAAG GAAGGTGTGT GGTGGGGGAG GGGACAATGG AGGGGGAGGA GTGGAAGATT TGGATTTTCA TTTAATAAAG  
TCAATTGAAA AATGAAAGTG CACCCCCCT CCAAAAACA GGAGATTCAT TTAGCAAGAG CCGTTTCATT CACA

SEQ ID NO:177: (Length of Sequence = 381 Nucleotides)

ATTGGGACGG GCCCCCTCT GAGGGAAGG ATOGATAAGC TTGATATCGA ATTCTTGAT NTTTCTAGT GFTATGGTTT  
TCTCCACTC CAATAACTWT TCATACCTKT GGTCTKAGTT TTCCATCTA TAAAATCATG TGCTAAATAA TTAATATCA  
TCTCTATCAT TGTGAGACTA CACAAAGCTT CCAGCCTGGG CAACAGGAAC CCTGTCTCTA AAAAAATAC AAACATTAGC  
CAGGTGTGGT GGTATGOGC TGTATTCCA GCTACTTGGG AGGCTGAGGT GGTAGGACTA CTGGGCTTT AGAGGTCAAG  
GCTGCAAGTG AGCTGTGATT GCGCCACTGC ACTCCAGCCT GGGCAACAGG GCAAGACCT G

SEQ ID NO:178: (Length of Sequence = 443 Nucleotides)

GATTTTATTC AAACACAGGC AAGAACAATG ACCTTCAGAG CTGGGTAAAA ATAATAAGTT AAAAGCATGG TTAGAATTTT  
AGACAATCAG ATAAAAAGTT TGAAGGAAGT GATTTCCTT TCTCTCTTA ATTGATTAA TCAACACAGC ATAAAAATAA  
TTGTATCTA TAAAATATCC TTGTTCOCAC ACAATGAAC TGGAGGTGGC CTTAGGATT CCTTGACTAT GCACAATGCA  
CACAATCTAC ATGTCCCTCC TCCCACCTT TTAAGGCAA AATGGTCTG CATCTTCAGG CAGAGGGTGG GCTCATGCCA  
GCAGTCAGCT GTGGTCAAGG AACTGGGGG TGGTTFYCT CCACOGAAAG ATGCTGCTT TGGGTCCACT TTGGGGCGGG  
GATCCCATTT TATTTCTAG CCTGTGCTC ACCACAGGGA AAA

SEQ ID NO:179: (Length of Sequence = 325 Nucleotides)

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TGGGGGACCA GCATTGCTCC CAGCTGAGGG CGCGTCTTC CTCACCACT ACCGGTTCAT CTTACGGGG ATGCCACGG  
 ACCCCCTGGT TGGGGAGCAG GTGGTGGTCC GCTCCTTCCC GGTGGCTGCG CTGACCAAGG AGAAGCGCAT CAMCKTCCAG  
 ACCCCCTGGT ACCAGCTCTT GCAGGACGGG CTCCAGCTGC GCTCCTGCAC ATTCCAGCTG CTGAAAATGG CCTTTGACGA  
 GGAGGTGGGG TCTTACAGCG CCGAGCTCTT TCCGTAAGCA GCTGCATAAG CTGCGGNTAC CCGCCGGACA ATCATGGCCA  
 ACTTT

SEQ ID NO:180: (Length of Sequence = 213 Nucleotides)

GAGCATGCC CCGAGTCCC CAAGATCCTG GTGGGAACC GCTGCACCT GCGTTCAAG CGGCAGGTGC CCACGGAGCA  
 GGCCAGGCC TACGCCAGC GCGTGNCGT GACCTTTTTT TAGGTCAGCC CTCCTTGCAA TTTCAACATC ACAGAGTCGT  
 TCACGGAGCT GGCCAGGTC GTNCTGCTGC GGCATGGGAT GGACGGGCTC TTG

SEQ ID NO:181: (Length of Sequence = 219 Nucleotides)

AGCTTTATCA CATTATACAC AAACATAGAA AACAGTGTTC CAGAAGAGAA GCAAAGGCCA TTGGCTTCAA ATATTTATGC  
 AACATGAAA ATGTTCTCAG CCGTTAAATG AGCACTGTGT ACTTGTCCAA CAGTGAGATA ACTAGTCAAT GGAAGAGTTC  
 AACACTAGAG CATGTATCTC AGTCTGTCT CATATTGCTA TAAAGGGCTS CCTCAGACT

SEQ ID NO:182: (Length of Sequence = 451 Nucleotides)

GTCTTACTCT GTTACCCAGG CTGGAATGCA GTGGTGAT CATAGCTCAT TGCAACCTCT GCGCTCTAGG CTCAAGTGAT  
 CCTCCACCT CAGCCTCCCG AGTAGCTGGG ACTACAGTA CATGCCACCA TGCCAGCTA ATTTTGTAT TTTTGGTAGA  
 GACGGGGTTT TGCCATGTTG ACTAGGCTGG TCTTGAAGTC GTGAGTCAA GTGATCTGCC TGCCCTGGCC TCCCAAAGTG  
 CTGGGATTAC AAGCGTGAGT CATGTGCTT GGCCTAGTTT GCTCTTATTT TTTTCCATC TTTGCAGTTT CTAGGCCACT  
 GGGAACAGGC TGCAGAGCTC AGAGTCCACA GCTGTGAGGC TCCATGTGTC ACCATCAAAA AATAAGGTGA CGAGAGTCTT  
 GGGTTTCCA GTGTACGGC AAGAGGGGT ACTGCTCAGG GGTACACACA G

SEQ ID NO:183: (Length of Sequence = 444 Nucleotides)

CCAAGTTGAC CCGCGAACC ACCGAC-GGA AGAGTGAGTT CCGTAAACT CTGAAGGATG ACCGGAATGG AGACTTCTCA  
 GAGAATAGAG ACTGTGACAA GCTGGAAGAT TTGGAGGACA ACAGCACACC TGAACCAAAG GAAATGGGG AGGAAGGCTG  
 TCATCAAAAT GGTCTTGCCC TCCCTGTAGT GGAAGAAGGG GAGGTTCTCT CACACTCTCT AGAAGCAGAG CACAGGTTAT  
 TGAAAGCTAT GGGTTGGCAG GAATATCCTG AAAATGATGA GAATTGCTT CCGCTCACAG AGGATGAGCT CAAAGAGTTC  
 CACATGAAGA CAGAGCAGCT GAGAAGAAAT GGCTTTGGGA AGAATGGCTT CTGTCAGAGC CGCAGTTCCA GTCTGTCTC  
 CCTTGGAGA GCACTTGCAA GCAGAGTTG AGGCTCAGCA CGA

SEQ ID NO:184: (Length of Sequence = 399 Nucleotides)

GGCAGAAAGA GGAAGGAGAC AGTGCCAGGA GGAAGAAGGA AGGAGTCCCT TAGCTCTCTT CATGTCCCC TTTACTTCTT  
 GCTATCTCT TCTCTCTT TCTCTCTT TGCCINTATG CCGTATTTT TGGCAATATG ACAGGCTGC CTACCCAAGA  
 TCAGAACTCC AAAACCACTC CCACCCCTGA AGGTCCGGAG GGTCTTAGCA GCGCTGGGTG GCTGCTGTG CTCAGGTCTT  
 CAGCTCCATG GGAATAAAA ATGGCACCTT GAATCTCTAG GATTTTGTCA CTTTGGAGTC ACAGCAAAGT TCTCTCTCTC  
 TGTCCCCC GTTGTCTGCT CCTTGGGTTA TAGGACATGG TAAATATTTA TTACTTTCAG GGAACCACTA TTTTATTAG

SEQ ID NO:185: (Length of Sequence = 263 Nucleotides)

CAGAGACACT GGCCAGCTA TTTTCAGCAG GGACAGAGTC GAGGCTCACT GGGATGGCT TCAGAGGACA CTGAGGCCCC  
 TCTCAGGAG GGCAAGGCAC AGATACCCA AATTCACCC CAGTCCCAA AGGTCTCCA GCGGGCTGT CCAGTCCATG

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TCAGCAGAAG GCTCTTGGGC GTGTGAGGA GGGTCTTGA GAACTAAGCG AAGGAGGCAA ACGCCAGGGC  
CCCTTGCAGGCACC ATGTGCACCA CTT

SEQ ID NO:186: (Length of Sequence = 343 Nucleotides)

GTTCOAATAG CTGGTTTAT TCTCAGCACA AAAGGGCCCT GTGTAAAAAC CAGAAGGATT TTGTAAAAATA TCAAAATGAA  
TATTTGGCCT GGAGTTTGA AAGTGAAGCA AGGCTGGACA TAGAAAAAAA CTGATCAGTA GTTATTCAGG ATATTATTTA  
GGATAAATGA AATAGGAACT TAGGGGCATC TCTTACTTTT CTACAGGTTC TTATCTGGGT CAATGAAGAA ATTGTGTTTA  
TCTTGTCTGCC CTGTGCATCAG GTTTTTTGA CTAATGGAAA AAAGCCGGCC GAAAAACAAA ACCCAATCCT TTCAGTCTTA  
GCITTTACAT CTGCCCCTG CAA

SEQ ID NO:187: (Length of Sequence = 229 Nucleotides)

GGTGGGCTC CACCCCTTC ACGTCATCCG CATCAACAAG ATGTTGTCTT GTGCTGGGGC TGACAGGCTN CAAACAGGCA  
TGCGAGGTGC CTTTGGAAG CCCAGGGCA CTGTGGCCAG GGTTACATT GGCCAAGTTA TCATGTCCAT CGGCACCAAG  
CTGCAGACA AGGAGCATGT GATTGAGGCC CTGCGCAGG CCAAGTTCAA GTTCTCTGGC CGCCAGAAG

SEQ ID NO:188: (Length of Sequence = 284 Nucleotides)

CCAGCAACTC AAATTACCA CCTCGGACTC CTGCGACCG ATCAAAGACG AATTTCAGCT ACTGCAAGCT CAGTACCACA  
GCCTCAAGCT CGAWTGINAC AAGTTGGCCA GTGAGAAGTC AGAGATGCAG CRTCACTATK TGATGTACTA CGAGAKGTCC  
TAGGGCTTGA CCATCGAGAT GCACAAACAG GCTGAGACCG TCAAAAGGCT GACGGGATTT GTGCCCAGGT CTTGCCCTAC  
CTTTCCCAAG GAGCACCAGC AGCAGGTTT TGGGGGCCAT TGAG

SEQ ID NO:189: (Length of Sequence = 215 Nucleotides)

GGAGGATGA GAAACAGATT TCTGCTCACT TCATGGGCTG RCTRGRATT GACGATGGTR CAAACCCAAG ATTATCTCA  
TGTAATTTAT GAAGATTATG GAACTGCAGC GCATGACATC GGGGACACCA CGAACAGAAG TAATGCAATC CTTTCCACAG  
ACGTCACTGA TACAACGGT CGGGCACATC TCKGGGCTA TGCTGCCGGT GGTGC

SEQ ID NO:190: (Length of Sequence = 153 Nucleotides)

TTTCATATGG AAAGAGCTAG TACAATCACA TATTTGAAAG GAGAAACAAT AGGTACTGAA CCGGAGGGAA AGGGCGAGGG  
TGAGTGTGCC AGCACCGGCC TGGTGAATCC ACGATTGGT TCCCATCCA AGGGTAAGTT TCCAAAATA CCG

SEQ ID NO:191: (Length of Sequence = 316 Nucleotides)

GTATTTATAC ATTTATTAT ATATGTATAT TTAATTGAGA NGAAACGAAC ATTTGGGGGA CAGGAAGCAA GCAGGCCCGG  
GGCTGCTTCC CTCACTGCC ACCTCAGAT CAGAGTTGGC ACATGACAAA TACCAAGCTC AGGGTGAAGA ACTGGGAGTT  
AACTGGGAAG TAGGGRGCG TCTATGCACA CGCAGGCTTC TAAGGGTGCA CGGTATGGGC AGKKGTTTG CACTGGGAGG  
CCCTATGTAC AGCTTGAAAG CTAGGGGTGA GATTAGCCA GTGACTACAG GAACATACGT CAAAGTTGAG AGAAGA

SEQ ID NO:192: (Length of Sequence = 360 Nucleotides)

GTTGTTTTTG GTTATATGCA GCITTTGACT AGCATGTATT GTGTCTTTT CTCTCTATG AATAATTTTA TATTTATGC  
TACTTCTGA AAGTTTACTC TTTGATGCTC TAAGAGAACA GCCAGATGGT TTATATGAAT AANCTTTATC TGCAGGATGG  
TGGATTGGTA AATNAGGAGA ATGTTGTTTG AGATATCAAG ATTATGTCT GGGAACTAAA ATATATAATG CCAATGTGT  
TTTGTCAAT TACTAGAGAA TCTGTGCAA ACATATCATC TCTTACATG CTGCACACTT TGCTTTTGT TAAACAGCAG  
GTAGTAGACA GACCAATACC AGTTTCGGT TAAGG

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SEQ ID NO:193: (Length of Sequence = 397 Nucleotides)

GAAAAGACCA AGGAGATGGT GAAGACAGCA GAAGCCCAGA AGCAGCAACT GAAGGAGGAG CAGGGGAGGT CAGCAAGGAA  
CGGGAGAGTG GGGATGGAGA GGCTGAGGGA GACCAGAGNA CTGGAGGGTA CTATTTAGAA GAGGACACCC TCTCTGAAGG  
TTCAGGTGTA GCGTCCCTGG AGGTTGACTG TGCCAAAGAG GGCAATCCTC ACTCTTCTGA GATGGAAGAG GTAGCCCCAC  
AGCCACCTCA GCCAGAGGAG ATGGAGCCTG AGGGGCAGCC CAGTCCAGAC GGCTGTCTAT GCCCCTKTTC TCTTGGCCTG  
GGTTGGCGTG GGGCATGCGT CTAGCTTICA CTCTGGTICA GGTCCAACAG GGTCGGTTCT GTGCCTTTGG TGCCCCC

SEQ ID NO:194: (Length of Sequence = 225 Nucleotides)

GATTATGGC TTGCTTTCA TAACATGAT TTTAAGTAT TTAATCTCTT AATGGCCCTC GTGTCTATTT TATACATCAT  
ATCTCTTAAT TCTCTAGATG GAACACTGAA GGACAGGAAT TAAGTAAGTG ACTGGCCATG CAAGGGTTGG AAATTTTACT  
GTATCCCTTC CTCRGTAGAA GTTATGTTAA ACATTCAAGC AACCACATAT CTAACAGAGG AGTTT

SEQ ID NO:195: (Length of Sequence = 294 Nucleotides)

ATTACTAGAT ATTTGTATGT TAAATTATGT GGGTTTCAA ATTTGTGGAG AATAAGTAAT AGTGACATTA GTTTAAGGAC  
AGTGTTTCAT CAGGGCATT TTTAATGAA TCTTATATTT AAATGTCGT TTCAGGAAT CATGTGAATC TTTCTTTTTA  
TAGAGGACCC ACAGGCATGA NTTATTTACT CCTCGGTA TAGGTTCTCA CCGTATGAA AGCGGAAGCA AATTCCAGT  
TAGAACATTA TNCATGTTAT GTAGGGGGT ATAAAGTGT TAAGTTTAAAT ATTT

SEQ ID NO:196: (Length of Sequence = 233 Nucleotides)

TTATTTTCT CTAAATTTTA AATAGAAGA CTTAATGGA AAACATTTAG TACCATCATG TCAMCCTGAA TGCCAGCAAT  
ACCTCGACTT TTACACACGC AGGAAGCCTA GTAAAAGCCC CGTCAGTAGT ACACATTTCT CTATGGTCCT TCAACAGTTT  
TTCATATACA AAATTTTCTG CTATTTTTCG TTTTGCAAAC AGCAATAACT TTTGGGTTTC CCATATGACC ACC

SEQ ID NO:197: (Length of Sequence = 230 Nucleotides)

AAGATACTA CCGGAGTAG CTGTGCAGCC CCGCCCTCTG CTCCCCCAG CCTCAGGCC AGTGCCAGGA CAGCTGGCTG  
CTGACAGGAT GTGGCACTGC TTGAGGAGGG GCACCTGCCA CCGCCAGAGG ACAAGGAAGT GGGGGCCGCT GGCCAGGGTA  
GGGAAGGKTG GGGCAATGGG GAGAGGCAA TGCAGTTTAT TGTAATATAT GGAATTAGAT TCATCTATGG

SEQ ID NO:198: (Length of Sequence = 118 Nucleotides)

TTCTCCTGGG GAAAGGGCTG TTGCTGAAGT GGCCGGTTT TTTAAGCATC GACATTTGCA TCCAAAGGTT CAAGCAGCCG  
CCTCAGGTT CARAGGCTTC CACCTGATGG CTGCACTT

SEQ ID NO:199: (Length of Sequence = 268 Nucleotides)

TAAATGATGG AGTTAAATGA TGTTGTCAGT GCTATTTAA AAACTACTC TTCCCTTCT CTATGAGTTC TACTTTGGTA  
AATATTAAATA TTTAACCAGT TAGTAAACT AACACCACTA TTCAATCT CTTTGTGCA TAGTAAGTAA ATTTTGCTTT  
ACTTACTTTA TAAAAAATA CTTTACATTT TATAAGCAG GTTTTAGAAA AACGGTTTAC AAGAAAGTTT GCCTCCATTT  
CACTGCCAAT TTAAGCACAG GGGAAAT

SEQ ID NO:200: (Length of Sequence = 422 Nucleotides)

CCAGTGAGTT TGTAAGAGC AACAGGGGTA NGACAGGTC AAGGAAGGAC ACAGACAGTG CCTGTTTTA CGTTCCAAAT  
TTCTTCTTTT TAATGGGTGG TGGGAGCTGA GCAATGATG CATTTGGAAG GGGCAATGAC TTGTCAATNA TGCAGAACAT  
GTAGGCATCA TGGAGAAGGA TGTGCATCGG TCTCTTGGGA TGAAALTA TGTGTGATG AGGATATCC CTTTGAGACC

AAAGGTGGTG AAAGCCCTGC TTCTGGACAG TCCGGCTCCA ATCTGTATAC TGTTTGTCG GGATGCTGTA CTCAAATACC  
TGCTGGTCCG AATGAGCGAT GACAAGGTTG TTTGGTATTG GGGGCAATAG CCATAGCACT CACTTGGGAA ATTGTAAGCA  
GGCACCGTGC AGTGAAGTTT TA

SEQ ID NO:201: (Length of Sequence = 273 Nucleotides)

ACTCCACGCT GATGAACCCG ACGTCCATTT CTCCAAGAAA TTCTGAACG TCTTCATGAG TGGCCGCTCC CGCTCCTCCA  
GTGCTGAGTC CTTCGGGCTG TTCTCCTGCA TCATCAACGG GGAGGAGCAG GAGCAGACCC ACCGGGCCAT ATTCAAGTTT  
GTGCTCGAC ACGAAGACGA ACTTTGAGCT GGAAGTGGAT GACCTCTGC TAGTGGAGTC CAGGCCCCCA GACTACTTGT  
TACGAGGGCT ACAACATGTG CACTGGGTGC CCG

SEQ ID NO:202: (Length of Sequence = 436 Nucleotides)

GGACTCCAAC CCCCCAGGAG GCGAATGCT GAGCTTGGCA ATGTTGGCCT GGATGGAGCT GATGGGCACA TCCCCACCGA  
GGACCAGGTC CTGGGAGTCC TGAGGAAGGT GGTCTTCTG GCTGATGCTT GCACTGGCCA AGGGTTTGCA TGGAGGAGGC  
ACACCATGGC GCTGCAGGAC CTGCTCCAGG TGCTTCACCA CTGCTCATA GCAGAACCTG AGGTGCAGCT TCTCCTGCAG  
CATGTGCTTT CTCTGCTGCC GCATGCGCCG CACCAGCTGA GGCAGCTCAG GGATTCKTT CCCAGCCTCC ACCTCCTGCA  
CAGCTGCATA GAGCAGTGCA AAGGCTCCCG TGGGCCCCAC ACCAGAGCTG CAGTGCACAA TGATGGCGT TGCAGGGGC  
CGTGATGCAA GGTAATTTC GTGCACCTCC TGGGT

SEQ ID NO:203: (Length of Sequence = 336 Nucleotides)

CTGCATGINT TGGGGACACT TACGCCAAGG CGCGCGTTC TCATTAGGAG CTGGGACCAG AAGTGAATAA GCCAGGTTC  
TGCTCAGGG AGCTCCATAG CAGGACTCAG AACCACACAC GGCCCTCTAG GCATTCTGA AGCTCTGTG TCAATTTTT  
TTGCTTTGCC TCTAGTTTTC CTTTGCACT ACCAATGCAG CCAGCCCATG TKTCCCTCT ATGTGGAATG TTAACGATAT  
TCCACTGTT TCTGGTGTCC TTCTGTAAAT CAGAGCTGCC GTGACCAATC CAGTTCAGGC ATCCTGGTGG CCTGGCTTTC  
TCTGGGGCAT AGAGCT

SEQ ID NO:204: (Length of Sequence = 393 Nucleotides)

GGAATCAGAT GCTCAGGTGT CCAAGCAGGG ATAAGGACAG GCAAAATAAA TAACCCCCCA ACCCCCATCG TCACTCTGCT  
GCAACACGAC ACAAGGTTT AAAGATCTGG GCCCAAGAC TCTGGGTCCC TTCAAGCAAG CTCAGGTGGA AGGAGGTTTC  
CCACCCCCC ACCAGGCTG TTGCCCCAG GTTGCCCTAG GATGGAGGCA GTTCAGACCC TGGGTCACTG AAGCTGATAG  
GAAGAACTNC GATATCAATG GCCTAAGCCT GCTGTNTGCC CAAGGGAGCC AAGGGCAAGA GCCAAGGGC CAATTATAAG  
GAOTGGACC TGGGGGGCCA GAGGAGGCAC CACAGCCGAG GGGAGCCAAG CCTGGGCGG GCAGGGCACA TGG

SEQ ID NO:205: (Length of Sequence = 390 Nucleotides)

GAGGAAGAGG ATGACCTGAG TGAGCTGCCA CCGCTGGAGG ACATGGGACA ACCCCCGCGG GAGGAGGCTG AGCAGCCTGG  
GGCCCTGGCC CGAGAGTTCC TTGCTGCCAT GGAGCCCGAG CCGCCCCAG CCGCGCCCC AGAAGAGTGG CTGGACATTC  
TGGGGAACGG GCTGTGTAGG AAGAAGACG TGGTCCAGG GCGCCAGGT TCGAGCCGCC CGGTCAAGGG CCAGGTGGTC  
ACCGTACATC TNCAGACGTC GCTGGAGAAT GGCACACGGG TGCAAGGAGGA GCCGAGCTG GTGTCACTC TGGGTGACTG  
TNACTCATC CAGGCCCTGG TTCTCAGTGT CCACTCATG GACGTGGGG AGACGGCCAT GGTCACTTCT

SEQ ID NO:206: (Length of Sequence = 172 Nucleotides)

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CTTTACTGTG GGTGTGGGTG TCACGTGCAC TGCCACAGCC ACTNGGAGGG ACACACAGCT TTAACCCCTR TTTGCTTAGG  
 NGAAGGGTGG GGGCATTGAG GGTATATAAA CTAATATAT ACACAGAAGG TCCTAGGKAG AAAGCCACCC TGAGCACACA  
 TGCTAGGCA CA

SEQ ID NO:207: (Length of Sequence = 215 Nucleotides)

AAGGCAATTA GAAGATTTAT TGAATATTGG TTAAGTAG ATTGACAATG ACATTAAAGA ATAAAGTGTA ATTTATTTGG  
 TGCTACTTTG TGAATGCTTC CAAGTACAAA TCATCTCACA ATACCATATA CAACATACTT TCAATCACAA CTCAAATATA  
 AAATAACCTA CAAAATCACA TTGCTATAAT CAATATACAA TAATTGTATT TTAA

SEQ ID NO:208: (Length of Sequence = 444 Nucleotides)

GGAGTTCTCT TGTCACGGA GAGCAGTGT GAGTGTATG GAATGCTAAA TCTTACCCCA AAGGGCAAGC AGGCTCCAGG  
 TGGCCATGAG CTGAGTTGTG ACTTCTGGGA ACTAATTGGG TTGGCCCTG CTGGAGGAGC TGACAACCTG ATCAATGAGG  
 AGTCTGACGT TGATGTCCAG CTCAACAACA GACACATGAT GATCCGAGGA GAAAACATGT CCAAAATCCT AAAAGCACGA  
 TOCATGGTCA CCAGGTGCTT TAGAGATCAC TTCTTTGATA GGGGGTACTA TGAAGTTACT CCTCCAACAT TAGTGCAAA  
 ACAAGTAGAA GGTGGGTGCC ACATCTTCA AGCTTTGACT ATTTTGGGGG AAGAGGCATT TTGACTCAAT CCTCTCAGT  
 GTACTTGAGA CCTTCTCCC AGCCTGGGAG ATGTTTTTTG TATT

SEQ ID NO:209: (Length of Sequence = 338 Nucleotides)

GCAGATCACT TGAGGTCAGG AGTTGAGAT CAGCCTATAT ATGCAAGTAC ACACACAGGC ACTGCGACGC ATGCATGCTC  
 ATGCAACACA CATGTACACT CTACATGTAC AGCTCACATA TGCATCCATA CACATGTGCA TGCTCACCCA TACACCAGCC  
 ACACACAAGT ACTCATAGC ATACATGGCC ACACACAAAG TACACACAGC TACACCATAT GCATATGTAT GCACTCATAC  
 ACTCATACAT ATGTGCCCCC TCAGAGAAGT ACACAAGTGC ATGCGCATCA CACATGCATA CGTCTCATG CATACACAGC  
 GGACATTTCA TACACAG

SEQ ID NO:210: (Length of Sequence = 371 Nucleotides)

GAGGAAGTAG AGCCTNAGGA GGCTGAAGAA GGCATCTCTG AGCAACCTG CCCAGCTTGA CACAGAGGTG GTGGAAGACT  
 CCTTGAGGCA AGCGTAAAAG TCAGATGCT GCAAGGGGAC TGTAGATTGA ATGATGCGTT TTCAAGGGTA CACACCAAAA  
 CAATATGTCA ACTTCCCTTT GGCCTGCAGT TTGTACAAA TCCTTAATTT TTCTGAATG AGCAAGCTTC TCTTAAAGA  
 TGCTCTCTAG TCATTTTGGG TCTCATGGCA GTAAGCCTCA TGTTATACTA AGGGGGAGTC TTCCAGGTGT GACAATCAGG  
 TTATTGGAAA AACAAAACGT GGTTTTGGGA TCTGTTTGGG AGACTGGGGA T

SEQ ID NO:211: (Length of Sequence = 295 Nucleotides)

CCTCCCAACG TGTGACATT ACAGGCGTGA GCACACGCAC CCAGCCCATC TAGCATAATG TTTTGCATAG TTGTCAGCAG  
 ATAAATATTG AATGACAAAA CTCAGATGGA GGAAAAAGAA CAAAATAACC TAGTTCTCAG AAAGATTTAA TGAGCAAATG  
 GGAAAATGTC AAAAAGATTT ACAGACAGGG GCATCTTAGA GTCACTGGAA TCACACAGGC CTTCCCTCAG CTTGAGGGGC  
 TGCTTGAGG TGGGGTGGG GTTACACCTC CTCAGTGGG AGAGACTTGC CAAAT

SEQ ID NO:212: (Length of Sequence = 370 Nucleotides)

TGGCCGATAT GAGGGGGGTG GGAAGTGGCC CCGCGCTGCC CCGCCGCTT CCCTATGTCA TTCTGAGGA GGGGGGGATC  
 CGGCATACCT TCACGCTCGG TGCTGAGTGT CCGGCTGGG ATTTTACCAT CGAGTCGGG TATGGGGAGG CGCCCCCGCC  
 ACGGAGAGCC TGAAGCACT CCCCCTCTT GAGGCTCGG GGGGAGCCT GGAAATCGAT TTTCAGGTTG TACAGTCGAG



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CAGTTTGGT GGAAGAGGGG GGCCCTAGAA ACCCTGTAGC GCAATGGGGT TGGGCGCCCC AAAGGTTAAG TTTGAACCCG  
AAGAGCAAAG GAAGAGGCGA TCATCATAAG TGGAGGATTA GGATTAGGAT

SEO ID NO:213: (Length of Sequence = 302 Nucleotides)

ATCTGTGGAA TAATCTGCGG GCTAACACGG ATAACCTAGT ATAAGAACCA CCCAGTTGAT GTCTATTGTG GCTTTTAAAT  
AGGAGGAGGA ATTGCACGTG ACTTGGGCTT GTATGCTGTG GGGAAATTCC TGCCCACTGA TGAGAGTATG TTTGAGCACA  
GAGACGCCCT CAGGTCTCTT GACAGACCTC AATCAAGATC CCAACCGACT TTTTATCTGC TAAAAATGGG TAGCAGCAGT  
GTATGGGAAT TTTCTCATAA AGAAGGGCAT CCTCAAACC GGAAACCACA GAGATGCTAG GT

SEO ID NO:214: (Length of Sequence = 354 Nucleotides)

ATGGATGAGT GGGCACCCCG CACAGGGCTG CAGGGTGGAA AACGCTCGAC GGCCAGGTGG TGAATGGGG GCAGAGAGCG  
CAGTGINGTA GGGGAGGAGA GGTGGTGTCC CTGCTGCTG GAGCCAGCC TGCTGTGCT GTGGGAGAG CAAGGCACCT  
TCTGCTGCCG GTGCTTCAG GGCCTAAGCA GCGCTGCAC ACTCACCAGC GCAAGGCTCC TCTGCAGGGA ACGAGGGCTG  
CTACCCATTT CACAGATGAG GGCAAGCAAG GACTTGCCCA GGGTGGCCA NAGCAAGTGC GTACAGGCC CTGAGAAGAG  
NGCCAGTGAG CTCATCTGA GTTAATTATG GGCT

SEO ID NO:215: (Length of Sequence = 260 Nucleotides)

TGGTCAAAG TCTAGCCCT CTNAGAGCT GCGTATTCA GCTTGCCAAC AGTGACATCA GGGTGAGGCT TCCTCTGTCC  
ACAGCATTAG CTGCGAATAT CCTCATGGTC ACAAGATGGC TGCCAGTGGC CGTCAGGGTG TGTGCTTCT TGTTCACATC  
CAGTGAAGA GTGACAGCCT GCTCCCTTA GCTCTGTGAC ACCANTGTGA AGGTGCCANG AACTTACTAG CAGGNCCTTC  
CTCATGACCC ATTCAACAGG

SEO ID NO:216: (Length of Sequence = 232 Nucleotides)

CTTGACAAG ATCTGGGATA ATCTCTGGA TTACCTGGCA GAGACTTTK TTCTCTCCC TTAATGTCTC CCAATAAAC  
AGTCTCTAC TCTGTGTGA GCCACCTGAA GCTGTGATAT TTCCAACGAC TGTAGGAGGA AAAAAATTAAG GGGAGAGAGG  
AAAACAAAAC CAACCAACC CTAANATCAT TTTTATTATG TACATAACGA CCTCATCTC CTGTATATGC GG

SEO ID NO:218: (Length of Sequence = 219 Nucleotides)

CTGCAACCAT CCATACCTTT TNCCTGTGGC TGCTATGGAG TCCCCAAC TCCCCAGTGG GGCTTATGAG GGTGGGCGAC  
TTATTANGIN GTCTGGGAAG CTCATGCTGC TCCAGAAGAT GCTGCGAAGC TGAAGGAGC AAGGACACCG AGTGCTCAAT  
NTTCTGCAG ATGACCAANA TGTTAGCCTT GCTTGAGGGC TTTCTTAGNC TATGAGGCT

SEO ID NO:219: (Length of Sequence = 390 Nucleotides)

GATAGGTAGC AGAGACCAAG GCGCAGGGTG CTTGAGATGA GCAAGAGAAC CCACTGGAAC CAGATACCCC AGGTGGGCGG  
GAGGGACCCC AGACCTTCAG AGGGCTGCC TGGTGTCTC CACAGTGCAG TCCCTCTGTA TTCCAGAGT GGGATCGGG  
CTTTCAGCCC ACCCTGATGC CTGCCCTCCA GGATGGCTGG TTTAGTCTGG GTCCATGTCC CAGACCCCTC TATTCTGCTC  
CAGGACAGCA GGAATTCAGG TCTTCTCTGG GGGTGGATAT AGGAGAAAAT TTCTGCTGG CACACACCTG GGCTCCAAAC  
ACTTGCCAAG TGATTCACTC TTAGGCCAG GGGGAACACA ATGACTATCA TTAATGATGC AGACCTGGCT

SEO ID NO:220: (Length of Sequence = 382 Nucleotides)

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TTTTTGTTTT GTTTTAATAT TTTTGATATT CTCTTTGCAT TGAATGGTA TAAATGAATC CATTTAATAA GTGGTTAAGG  
 ATTGTTTTAG CTGGTGTGAT AATAATTTTT AAAGTTGCAC ATGCCCCAAG GCTTTTTTTG TGTGTTTTTA TTGTTGTTTG  
 TACATTTGAA AAATATTCTT TGAATAACCT TGCAGTACTA TATTTCAATT TCTTTATAAA TTTAAGTGCA TTTTAACTCA  
 TAATTGTACA CTATAATATA AGCCTAAGTT TTTATTGATA AGTTTTATTG ANGTTCTGAT CCGTCCCCCT CAGAAATCTT  
 TTATATTAT CCTCAAGTT ACTTTCTTAT TTATATTGTA TGTGCATTTT ATCCATTAAT GT

SEQ ID NO:221: (Length of Sequence = 314 Nucleotides)

GACTTTGGTT TATTTAATAA ACAAGCCAAA AAAAAAAAAA AAAAACCCCA ACTTTATATA CAAAGTCAAA CTGAAACCAC  
 GGWTTATGGA AAGAGGCAAG AWTATGGGT AACAGGGGAG AAGGCTGGGC CAGAGCCAAT ACCACATTCT GAACACAGGA  
 GCCACGGGAA AGAGGTGCTG GTTCTTCTG GCAAGACCGG GGTGACTGGA ACGCAGTGGT CCTACTGGCA AACCAGCCCC  
 AACACTGAGC TCTTCTAGC ATGGACTCCA TTCCCGTGAT TGGCCAAGGG AGACCCCTCC CCCAGGAGGC CTGT

SEQ ID NO:222: (Length of Sequence = 342 Nucleotides)

TTCCTTCTCT GCGGCGGCAC GTCCGNAGCA GCTGCTTCCG CCCCCTGCTC AACTTTGAGC TGGAGGAGAA GCAACTTTGG  
 CAGTGGCCGC GGGGTGGGAA TCCCGCTTCT CCTCGGCAGC AGTAGGCTCG CAAGTCGCTG GGGTTAGGTG GGGCAAGAGT  
 TTCGCCGCG CATCAGCGCT TGCTTCGGAC TGTTTGCAAC GTGTTTCCAG CGAGCTGGGA GCGGGGGTTG TGA CTGCGAG  
 TCGTCTGGGG GAGGGGGACT TGTTTTCTT TTCCTCTAGA GACCTCGCT TTCAACTGGA TCAAACGTTG TCGAAAGGAT  
 GTAAATAGGC AAGAGCAAAC TG

SEQ ID NO:223: (Length of Sequence = 376 Nucleotides)

GIGATGGCTG CCTTGAGGGG GACCATCATG TGGGAGACGC ATTGGTGCGG GTCTACCCC ACAGCCCCATG CCCAGCCTCC  
 TGCAGACTCA GGTATCCAG CTGGTCGATG GCTCTTTGCA TACCTGGTGC CTCTCTCTCT CCGGCTTGGC AGGCTTCTCT  
 GGGGGCTTCT CAGATGACTC TTTTGCCCTC TTCTCTGCTT TGGCTAACTC CTGCGCCAGC TCTGAACGTG CCTCCTTGGC  
 TCCCTCTCT ACCACCTCCT CCGTTTGGC CAACTTGCTC ACGGCCGTCT TGGTAGTGGC TTTGAGGCTC TCCTTGCTAT  
 CAGCCCCCTG TTTGATTTTG CTGGGCTTGA GGTGGTAAG GCACAGCCCC AAGAAG

SEQ ID NO:224: (Length of Sequence = 445 Nucleotides)

GTTGATAGAC ATTGGCATG GGGTTGCTTC CACCTTTTGG CTGTATGAA TAATATTGCT ATGAACACTA ATGTACAATT  
 CTTTGCCGGA ACGTAAATGT TTTCAATTTCT CTTGGGTATT TATCTAGAAA TGAAATTGCT GTATGTTAAC CCTTTGTTTA  
 ACCTCTTGAG GAACTGGCAG ACTTTTCCAA AGCAGCTGCA CCATTTTAAA TTCTAACCAG CAGTGTTTGA GGGTTCCAAT  
 TTCTCTATAT CCTTGGTAAC ACTTGTTATC TGCCCTTTTG GTTAGAGACA TCCTAGTGAG TGTGAAGTGG CATCTCACTG  
 TGGTTTGTGAT GTGCATTTCC CTGATAGCTA ATTGTGTGGA TCCCTTTTGC TTTTAGTGGA ATGAAATATC TGGTAGTCTC  
 GTATGCCAAA CTAAAGCTAA AATTAAATG ACTCTGCATG ATGGA

SEQ ID NO:225: (Length of Sequence = 403 Nucleotides)

TGCTCTCGGG ACAGTTTCCC GGGCAGCTCC TGGCCAGCTT CCAGCCCAGA GTCTCAAGT CCAGGGCACC TTGGGCCCCAG  
 CGCAGGCAGA ATCCGAGGTG GTCTGGCTC TACCCGGGC CTCCTACTCC CCAGCACCCC TGGAGGAGGC AGGGGCTCCC  
 CGCCGCCGAG GCTGCCTGCC CTAGGCCAC CTCTGCATGC TGCTCATGGG GCCACCCCTG CTCTGGGCC CTCACTCTGC  
 CTAGGGGAGC TGGGCCAGGC ACTAGCCTTT GCCAGGGAG GTGGGCCTCA GGCTGCCAG GTGCCTGCAC CCCAGCCGGG  
 CTTCTCTGGG GCCTCCCCGT CGTCAAGCCT ATATCTGTC TGTCCCCACC CCAGCTGTCC CTGCCCAGG GACTGGCAT  
 AAA

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SEQ ID NO:226: (Length of Sequence = 440 Nucleotides)

GTGCCTTAAG GAGAGAGATT GTGTCTTCC TCTCTCAGGG GTGATAACTC AGGAAGCCTC TGGGTGGGA AGACCATCAG  
 TTCTTTTGTG TTAGGTTTCT TTTCCTGTCC CTCTTCATC CCCAAGATGT GACCCCATAA AAATTTTTC TGAGTTGGCC  
 AGGCATGGTG GTCACGCT GTAAATCCAA CACTTTGGGA GGCTGAGGCG GCGGATCAC GAGGTCAGGA GTTCGAGACC  
 AGCCTGACCA ACATGGTGAA AACCCATCT CTACTAAGGA TACAAAAATT AGCGGGTGT GTTGGCACAC ACCAGTAAGT  
 CCCAGCTGCT CAGGAGGCTG AGGCAGGAGA TTTGCTTGAA CTTGGGAGGC AGAGGTTGCA AGTTAGGCGG GGATTGCGCC  
 GTTTGTACTC CAGCCTGGGC AAGCAGAGCA AGACCATCTA

SEQ ID NO:227: (Length of Sequence = 426 Nucleotides)

GACCAAGAAG TTCGGTTTCG AGGAGCCCGT GGTTCGCT GACCTGGAAG ACCAGACAGN CCACCGGCAG TGGACTCAGC  
 AGCACCTGGA TGCCGCTGAC CTGCGCATGT YTGOCATGC CCCACACCG CCCAGGGTG AGGTTGAOSC CGACTGCATG  
 GACGTCAATG TCCGCGGGCC TGATGGCTTC ACCCGCTCA TGATCGCTC CTGCAGCGG GCGGCTGG AGACGGGCAA  
 CAGCGAGGAA GAGGAGGACG CGCGCGCT CATCTCGAC TTCTCTACC AGGGCGCCAC TTGCCACAAC CAGACAGACC  
 GCACGGGCGA GACCGCTTTG CACTTGGCG CGGTACTTA CGCTCTGATG CGCAAGGGC TCTTGAGGCC AGCGAAGATG  
 CCAACATCAG GCAACATGGG CGAAC

SEQ ID NO:228: (Length of Sequence = 278 Nucleotides)

CAGGACCAGG AGAAGATCCT GGAAGATGCA GTGGATGAGT GAGCGGGCTT TAACAACAAG GTTAAAAAGG CCACTGAGAT  
 TGTTTTAGAA AACCAACAGC AAAACACTGA CAGGTACAT AAATACAGAT TGGACATTTT AGGGTAAATT CACTGTATTT  
 CCTACTTGCT TGTAGGAAAC CGAGTAAAGT GGAAAGCTG TCTGATCAT ATGGCATGCA CACCAGACTG CAAAAGGNGC  
 TCCACACTAT TTAACAGGAC TGTGGCAAAA TAGCTTTA

SEQ ID NO:229: (Length of Sequence = 425 Nucleotides)

TTTTGTTC CAAGCCTTTG TGAATGACTT TAAATCCTCT CACTGCAGA ACAGAGATGG CTTCAAAGTG GGGAGTGAGG  
 GAGTGAGCGA GGACCTGGG CTGAGACCTG TTTTCTTCC ATTCTGCTG TGGCTTCCA CAGCTCCCTG GTTCCACACC  
 AGCCCTGCT CTGCGCAGA AAATGGATTC CCAGGCCACA GAGCTGTGAG GCCTTTGACT TTGCAGAGAC CAAGCAGCCC  
 AGAGGCTGTG CGACASGGCT AGTCCCTGGT GGGCGGCT GGGGCATGG GGGCAGGGAG ACTGAGAGAT GGGGAGGCG  
 TTGAGAATCC GGGGGTCTCT GGATACCTGA CAAATTGCT CAGGTCTTAG CTYTGCTG CCACTGATT GTGTGCTG  
 GCAAGGTGCA AGTYTTGGC GTTC

SEQ ID NO:230: (Length of Sequence = 382 Nucleotides)

TTGGAGGATG TGCTGCCCC CTGCAGCAG GCGACGAGC TGACAGGGG TGATGAGCAA GGCAAGCGGG AGGGCTTCCA  
 GCTGCTGCTC AACACAAGC TGGTGTATGG AAGCGGCGAG GACTTTCTCT GCGGCTGGC CCGAGCTAC AGTGACATGT  
 GTGAGCTCAC TGAGGAGGTG AGCCAGAAGA AGTCATATGC CTTAGATGGA AAAGAAGAAG CAGAGGCTGC TCTGGAGAAG  
 GGGGATGAGA GTTCTGACTG TCACCTGTG TATCGGTGC TTTGTGGTCA GCTGGCTGAG CATGAGAGCA TCCAGAGGCG  
 CATCCAGAGT KCCTTTAGCT TCAAAGGAGC ATKTGACAA AGCCATTCT CTTAGCCAG GA

SEQ ID NO:231: (Length of Sequence = 398 Nucleotides)

GAGGCTGGAG AATCGYTTGA ACCCAGGAGG CGGAGGTG AGTGAGCGA GATGGCGCA TTGCACTCCA GCCTGGGCCA  
 GAGCAAGGTT CTTCTCAA AAACCTGGAA ATCTGTGGG AAGTAGGGG AGGGCAAGGT TAAACCTAT CAGGTGTGT  
 CAATTAGACT TGTTCACACT TGAGAACCTG AATTTGTCAT GTAATTGAAA TGTTCAGAA CAAGTCTGGC AGTTTCATAA

GGGAGTMTT AGATGCCAAT ACATTGCAGA TAACCATATT GGTTACATTA GGGGAATGAG CATGGGATAG GTGCCTCCCA  
GTTGGTAGGA TAGCATGAGG AGGTTTCAAA AGTAACCSCT TTAAGGGTAA TGTCCAGTAT TTGCTAAGTA ACCAAGGT

SEQ ID NO:232: (Length of Sequence = 272 Nucleotides)

GGGGCTGCAG ACTGAGTTAT TTTATTTTCG TATTTCCAGT TTGAAGCTAC TATCATGGGC GTTTAGAGTT ATACAAATGA  
CACTTACAAA AAATAAAGA CCAAGACACC CAGAGTGAGA TGCATGTTGG GGACGGGGGA GGCTGGCAGC AGGGGGGCC  
CGGGGCTCA CCCAGGGCT CCGGAGGGG CGACGCTGG CTTCATCCAC CCGGGAGGC CAGGGAGCAC CAATCACAGC  
AGGGGCTCTG GCCCAGGTGT CGGCAGCCCA GG

SEQ ID NO:233: (Length of Sequence = 364 Nucleotides)

ATTTTACAGT TTTATTTTAA AATCATTTAC ACATATTCAT ACAAAGAAAA ATAAATTTCA GGATGGAATC CTGGGGACCA  
TGGTAGTTTA AAAAAAATA TCTCTCTGAT CATTAGCTAC TAAAGACANG GCAAGAGGCT TAGCAGTCAT TTCTGGGGGT  
TAGTGTATCT CCCCATGCAG GGGACAACG NGAGAATCC AAGCTGCTCC CTCATCTCC TTCGATCTAG ATGGGGGAAG  
GGGATTTTCC AATGCTCTCC CCTAGAAACA TTTCAAGAAG TACAGCAAAG GCTTATGGTA ACACTGGAAC CTATTTGCTA  
GAAATCTGGC AAGATTGCAC TTTCTGAACC CAATTTCTCT ATAA

SEQ ID NO:234: (Length of Sequence = 217 Nucleotides)

GGCCAGGAGC CAGAGGGCCC CGGGCCACC CCTGCGGGG AACGTGATGA CCAGAGTCCA GACAGTGTCC CAGAGAGGCC  
GCGGCCGCA GACCGGAGC TCTGCTGCC CTGCTGGAC GCTCGCCAC TCCAGGGAG GACGGCCTGC CCGTGGCTGC  
AGGAGGCCAC GCGGCTCATC CAGGAGGAAT TTGCCTTGA TGGCTACCTG GACAATG

SEQ ID NO:235: (Length of Sequence = 221 Nucleotides)

AACTTTAAAG TTAGGATTTT AAAATATTG TAACTGGCTA AATTTTAAAG TCGTGACAAA TAATTACTTA GGTTCAGAAA  
TATACACACA CTACTCTTT AGCCAGTTTC TTTCAAGGTA TTACTGTCCT ATCAGATATC TAGCCATTTC CTTTGCAAA  
TTACATACCT TCTTAAGAGT GTATTTTAA GATTATTACT TATGCTTTAT GATGATATAG T

SEQ ID NO:236: (Length of Sequence = 221 Nucleotides)

ATAAATGGGT TTCTCACTCC TTAGGGACAC GATTGGAAAC AATACATCCC ATGAACACAG GTGAATGTCC CTGGTTATCC  
CTGAGCTGGG CAGTTTCACA CAATCANTTT TNCCTGAGG CCAAGTCTG TGGTTTGATC ATCTTAGCAG CTTCAGAAC  
AGAAAGTAGG TTTACTTTGT CTCAAANTC TNATTCTCGG TGCTCAAAGA AGAATGACCT G

SEQ ID NO:237: (Length of Sequence = 251 Nucleotides)

GACATCTTC TAAGATTCTC TGTGGGAAA TGAAGTCAA TANAATGCGG GTTCTGGGC CATTCGCTTT ACTTTCATTT  
TTTGATTACA AATTTCTCTT GAGCCACACA ATTATGCTG CTAATCTCT TCTTCTAGA GAGAGAACT GTGCTCCTTC  
AGTGTGCTG CCATAAAGG GTTTTGGGAA TCGATTGTAA AAGTCCAGG TTCTAAATTA ACTAAATGTG TACAGAAATG  
AACGTGTAAG T

SEQ ID NO:238: (Length of Sequence = 327 Nucleotides)

GTTGCTGGCT GTCACAATAA TGCTGTGATA ATGCTGTGGT TTCCAGCAG GGAGGTGGGA GCGGGGAGG GGCTGCAGCC  
TGATGAGAGC CAGCTGAAGG AAGAGCTGCC TCTCCCTTC TAAGCCCTT CCAAGGTCT GCCCACCGC CCAACCAAA  
GACCACTCCG AACAAAGTGA GGATGTGGAT GCTCTTGCTG GGTCCGCTGT TCCGAGAGG GAAAGAAAG GTAGCTGCAC

TGACCCCACT GTCCCATAT ACAAGGGITK GGGGGCAAGA GCATGTGGCT ACTCCAGCA AGGGRAAAT GGGAGGAGCA  
GTAGAAA

SEQ ID NO:239: (Length of Sequence = 285 Nucleotides)

ATTATTAGTT TATGGTGCTT TAAACCTATC AAAATAGTTG TAAGTAAATG GATTTCTTGT NCTCCCAATA ACAATTCTCT  
GAGCTAGGAT AGATGTCITT CTGGCCATTT TACAGGTGAT GACACTGACA TAGGGACTGA GTGGGTAGCT TAAGTCCAT  
GGTTACCAGG AGCAGGACCN ACGTTTCTTG NCTCCAGTC TCATCTGTT TTCCACTGAC CAGGTTGGTT GCTCCCTTGG  
AAAGCAGTCC CTGAGAGTTG ACTTAGAAGT TCAGGGNGAA GAGGT

SEQ ID NO:240: (Length of Sequence = 349 Nucleotides)

TTTGTCCATG TTGGACAGGC TGATCTCAA CTCTGGCCT CAAATRATCT GCCCAGCTTG GMCTCCAAA GYGCTGGGAT  
TACAGATRTG AGCCACTGCA CCCAGCTGA CATGCCATAG TTTCAGCATT TTCTTGGGCA ATGATCCAAG CTGAAGGCTG  
GTCTGAGGGA TCTSAAGAAG CGTATGAGTT GGAAGAGAGG GACAGAAAGG AAGAAGACAT GTGAAGAGAG AAAAGGAAGG  
AAGCTAGCAG AGGAATGCC TCATATAGAG ACTGCTGCT GAAGCTCAGC CCCTCTGAAG ATAGGTAGGC CAGGCTGGCT  
TAGCTGAGGC AGTGGGTTAG ACCAGCCT

SEQ ID NO:241: (Length of Sequence = 233 Nucleotides)

GTGACCGGT CTGCTTCAT CTTTTAATGG COGGTGGGT ACAGTTAGTG GACAGACGGG GGATGGGACA CAGCAGGGGT  
GAAACAGGGC AGTCACAGCC GGGGCGGGG ATCTGGAAGC GGGGGGGTCT CCCCCCTGG AAACACGTTN TCTGGAAGGA  
CACCTTAGG ATCCCTGAC CTCARGGTGC CACCCACAG GGCCTGGTGT TCTGGGAGGC CCGCTKGAG TGA

SEQ ID NO:242: (Length of Sequence = 372 Nucleotides)

ATATGTAATA CATTGGTGG AATACGATG TACAATCTT CAAAATAGT AAAGAGCAA ACAACAAA AATAGTAGAA  
GCACTGGAGA AATACACTAT GGCATAAAT AGTTACGGT GGGATGTCAC ATGGACCATA TCTACACTCT GTGGCAACCT  
TCTTACCTGA CTCAAAGGA TCAGATAATC AAACAGGAAA TTATGGTAGG AAATCAGAAA ATTGAAGTAT GCATTCATAT  
CCTAAGCAAT TTATTTTAGC TCAAATATA AAAATATICA TCAGTTAGCC AAGCTTTTGN GATGAGAGAT CATAGCCTCC  
TCTTTGATAG GGGTTTCTT GGGTTTCTT GATTCATGT TTCAGAGTTT TT

SEQ ID NO:243: (Length of Sequence = 256 Nucleotides)

CTCACACATT CATACCCAAG GAAGAGGCAA ACACACTCAA GTCCAGAGTT CCCAGTGGTG CGCCCAGAC CTACTGTCCC  
GGGGGTGTTA TGCTGTCCC TCGCTTCCC CAGAGCAGCC AGGACAGCCT GCACCGNCTN CCAGACTCTC GCAGGAAGGG  
GAGCTCTGCC CTGGGGAGGA AACTNACAGG CTGGGAGACA AGACTCCAT CGCAGGGACA TGACAGCAG CAGCCACAGC  
CCCGGGAGC GGGCAT

SEQ ID NO:244: (Length of Sequence = 220 Nucleotides)

CAAATGGCAG TTCTGAGAA TCGACAGGA ACTTAAATCT GGAATCAGGG TTTCAGTGG GTCTCGACT CCCACCAACC  
CGCCCCCTCG NTGTCTCGC CGCCAGNGT GACCTCACG CGAAGGAATC TTCTTCGGAT GGGTGCACCT TGCCAANAGG  
TGTTGGCACCT GNGGACTAG GAGGCGCTC CANACTAAGG GCGCTCANTG CGGCTTCTT

SEQ ID NO:245: (Length of Sequence = 239 Nucleotides)

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TTATGCTCA TGTAACCTTC TTAATAGTGC CTGTCTGCT GGGTTGTAG CTGTAAGAGT TCTGCAAACCT GGCCCTATAA  
 AAAATATTGAT GCTGTCCATT AAAATGAATC TCTCTCTCTC ACTCAGTCTC TCTCTCTGTC TGTCTCTCTT TCTCTCTCT  
 CCTGCCATGT GTGTGTCTCT CTCTACTCCT CTGATTTTGN CCTCTCTCTC TATTCTGCTA CTCTCTCTCC TCTCTCTCG

SEQ ID NO:246: (Length of Sequence = 269 Nucleotides)

GGTTTCACCA GGGTTAATG TGCTCTGATG TTGACCGTCC CTCTNAGTNT TCTGGGGAGG AGGGGGTGGG GCGGAGGGTC  
 AGGAAAGCAG GCTCAGCTTC CAGGGTCAGG GAGTTGTGGG CCCAGAGGGG CTGTCCACAGT GGATGCACCC TGCCCCCTCC  
 CTGCCAGAC CCGAGGGTAG GGCAGAGGCA CCTCCTCCTC AGCCTNTGGG CTGCACCCAC AGGGAATNGA GGGGAGGGGC  
 ACCATTACCA CTGGACCCAC CAAAGACCC

SEQ ID NO:247: (Length of Sequence = 297 Nucleotides)

CTATTCAAAG TTTACTGACC TCCCCAGCCA GGCAGGCCAA CCTTCCGAG CAGGGGAAAT GTCCATCTAG CTGCCCTCTG  
 CTGGGTTGCA GCCTATGCCA TGAGAGGGTA CTGGAAGCAG GAGGGAGCCC TGGCTAGGGC AGGCCCTAAA CGCAAGGGAA  
 GCTGAGCAGA GATCTGCACA CTCAACCCCA TTGATATTTC TTCTCTCCT CAGTCATGGC CAGCGTGTG GTGACTAGAC  
 CCGTGCCAAT AGTCCGGTTG CCATCTCCGA GGGTGAAAAG ATGGCCTTTC TCTTAAG

SEQ ID NO:248: (Length of Sequence = 281 Nucleotides)

ACAACAAGCA CACCAACTAT ACCATGGAGC ACATCCGCGT GGGCTGGGAG CAGCTGCTCA CCACCATGTC CCGCACCATC  
 AACGAGGTGG AGAACCAGAT CCTCACCGC GAGGCCAAGG GCATCAGCCA GGAGCAGATG CAGGAGTCC GGGCGTCCCT  
 CAACCACTTC GACAAGGATC ATGGCGGGGC GCTGGGGCCC GAGGAGTTCA AGGCCTGCCT CATCAGCCTG GGCTACGAGC  
 TGGAGANCGA CCGGCAGGGT GAGGNCGAAG TTCAACCGCA T

SEQ ID NO:249: (Length of Sequence = 383 Nucleotides)

AGCGCATCCA CACCGGGGAG CGGCCCTACC CCGTCTCTTA CTGTGGCAGG AGCTTCCGCT ACAACAGAC ACTCAAGGNC  
 CACCTCCGTT CAGGCCACAA TGGAGGCTGT GGGGGTGATA GTGACCCATC AGGTCAGCCA CCCAACCCAC CAGGTCCCCT  
 CATACTGGG CTTGAACTT CTGGCCTGGG TGTCACACT GAAGGTCTAG AGACCAACCA GTGGTATTTG GGAAGGGAGT  
 CGAGGGGGAG TTTTGTAAAT CCAAATCTCT GTGGNTTCAT GCTTTGTATA TGCTACAGC AGGGCACAAT AATCCAAGAC  
 AAGGTCTGTG AGCCCCNATC CAACCCAC AGTAATTATA ATCTTGGCAC ATCAATGGAA TTT

SEQ ID NO:250: (Length of Sequence = 397 Nucleotides)

GTATCCTACG TTACAACAAT AATATCATGG GAGAAATAGA AATAGCCTAG TTTGCTTCCA ATAGAACTG CTTTAAACAT  
 GGGCTGTATA TAAAAATATT AAAGAGAAAC AAAACTGTAC ATTCTCTCAT TGCTCCGCTA CAGACAACCC ATGTCTAATC  
 CTGTGTGCAA ATATTTTCT CTATAGCAG TAAGTACAGC ATTAGAAGT GATTAGAGAG TCTGTTGATG AAACACAAAT  
 GTATGTTTTT ATTGATTTTT ACTTTAGAAC ACTACAGAGT TCTGGGACC GGGGTGAANG GCATTTAGCT GGGGTGGTTT  
 GTGTGGGGT TAAATACCTT CCCACTGCA AGTGACTGC CTGTNCCGC TGCGGGAATC CTGTNCTTG GTTGGGA

SEQ ID NO:251: (Length of Sequence = 276 Nucleotides)

GGCCATAAAA GAAAGAGCCT GTTACCTATC CATAAACCCC CAAAAGGATG AGACGCTAGA GACAGAGAAA GCTCAGTACT  
 ACCTGCCTGA TGGCAGCACC ATTGAGATTG GTCCINCCG ATTCCGGGNC CCTGAGTTGC TCTTCAGGNC NGATTTGATT  
 GGAGAGNGA GTNAAGGCAT CCACAGGTC CTGGTGTG CCATTCAGAA GTCANGACAT GGACCTGGG CGCAGCCTTT  
 TCTTAACAT TGCTCTCTCA GGGAGGNTC TACCT

SEQ ID NO:252: (Length of Sequence = 314 Nucleotides)

CCTGAACAGT CIGTTTCATT TGA CTGTTTG GGGGTCTCCC AGTTTAAGCA AGATATTAA GCCTTATTTT TCTTGGCATG  
CTTGGATTCC CCAGTAAAAA AACTCTCTGC CCTGGGCTGA CAATCAAAGT TCTGGGAAGT AATATGGATA AGCAAGCTGG  
AAATGGAGAA GGCTATTAC TGTCCTGGG TOCTACTGTT TTCTGNTGG GAACIGCTTT TCCATTAGGC CTGGTGTGCC  
CTGGAAGGGA NGAGCCTCTT GCAGAGACTA CAATCTTGA TGGGTCTTT GCCAAGTTT AAGGTAGGAA CCA

SEQ ID NO:253: (Length of Sequence = 293 Nucleotides)

GAACACTCTG CTCCAGCCAA GGTGGTGAGG GCAGCTGTTC CTAACAGCG CAAAGGCAGC AAGCCACAGT CCCACAAGCC  
TCAGCCTACC CGTAACTGC CACCAAGAA GGACATGAAG GAACAGGAGA AAGGAGAAGG GAGTGATAGT AAGGAGAGTC  
CAAAAACCA ATCAGATGAA TCAGGGGAGG AAAAGAATGG AGATGAGGAT TGCCAGCGAG GGGGSCAGTA GAAGAAAGGA  
AACAAACACA AGTGGGTTC ATTACAAATA GACATGAAGC CTGAAGTGCC CAG

SEQ ID NO:254: (Length of Sequence = 413 Nucleotides)

CTTTTCTTA ATATATTAAT ATTTACCAAG GCAAGACAGT GATTTATGGA CATTTAAAT AGTTAGCTT TGTCTGCTG  
TTCTAAACA TTGTGACTG TCTGATAGAC TTITAAAAA CAGTCTTTT CCAGGATGAT TTATGATATG CAGTATTGTT  
TATAGATGCC CATGGCTTAA CCTTGAAAAG TCAATTAAGT GACACAATTA AGAGAGATAT GAATAGTGGT AGAAAAAGCA  
TGTA CTCTGG ATAAGTGGG GTAAATCTAG TATTTGTAT TOCTGTCACT AATATTGTCA NTAGTATTTT TTAGAAGGTT  
TAATTTTTT ATGGGTATA AATTCATGC ACTCTCTGC AATGGTACC ATCAGTGGGA ATGNGGAAT TATCCATGCT  
TTGGGGTTA AAA

SEQ ID NO:255: (Length of Sequence = 376 Nucleotides)

GGTCCAGG GAGAATCAAT ATATCTAGTA TAGTTTATAT TTGTACCTTC TCTCCTAAG AGTTACAGTG AGTGACTCTA  
CTCTCAAAT GGAGCACCTC TCTCCAGGAG AGTAAGAAGA TCACATAAAT AGAAAGTGAG CTTTGGACTC TAACAGACAT  
AGGTTTATAT TCACTCTGC TACTTAATAT CCATATTGGT TTGAGTTATT TAACCTTGAC AATCCACACT GTAAAATGGG  
TAAATAATA ATACCTCTC CTCAGAAGTG TTACAAAGTT TATATGAAAT AATGTGCTTA AAAAGCTGGG TACATAGTAG  
GAGCTTAGTC ATTGTTTATT TTCTCCTCA TACCAATACA TGNITCATTC CTACTG

SEQ ID NO:256: (Length of Sequence = 241 Nucleotides)

GTAGAGATGG GCTCACTATK TTGCCAGGC TGGTCTGAA CTCTGAGGT AGGAGGATCG CTTGAGCCTG GGAGACAGAG  
GTTCAGTGA GCGAGATCA CGCACTGCA CTCTGCCTG GGTGACACAG TGAGACTCTG TCTTAAACAA AACAAAACAA  
AAAAAGGCA GGGCAGGG CTACACCTG GTAATCCAG CACTTTGGGA GGCCAAGGTG GGTGGATCAC CTGAGGTCAG  
G

SEQ ID NO:257: (Length of Sequence = 406 Nucleotides)

CAAGGGTGT CTTGCCAGA TCACTGTAA TGATTGCTT GTGGGAGCT CGTGGATGA GGCTCTGGG CTGGTCOGAT  
TAAGAAAACC AAGAGAGGCC GGGCAAGGTG ACTCAGCCT GTAATCCAG CACTTTGGGA GGCCGAGGTG GCGATCATG  
AGGTCAGGAG ATGAGACCA TCTGGCTAA CACAGTGAA CCGCTCTCT ACTAAAAATA CAAAAAATT AGCTGGGCAT  
GGTGGCAGC GATTGTAGT CCAGCTACTA GAGAGGCTAA GGCAGGTGA TOGCTTGAAT CCAGGAGGTG GGGGTTTCAA  
TGAGNCGAG ATGTTACCAC TGCACTCCAG CCTGGGGCAA CAGAGTANGA CTTGTAAAC CCCAACCAAC CCAACCAACC  
CCCGCC

SEQ ID NO:258: (Length of Sequence = 157 Nucleotides)

GAAAAGAAGG AAGGAAAGAG GGGAGGGAGG GAGGAAAGGA GAGAGGGAGG GAAAGAAGGA GAAAATGCTG GAGCAAAGGA  
GGTGGTTAC ATGATTCTC TAATGGCAAT GAGCTGCTT CTGGATGAA TACAGAATCA GAGCGAGACT CCGTCTC

SEQ ID NO:259: (Length of Sequence = 361 Nucleotides)

AAGCAGATAT AAATGGGACC ACTGTGAATC AAAGGGGAAA AATTCCAGGA AAAAAAATT CCAATAGCTT CACAGTTTAA  
CTGAGGTTTT GGAAAACTT AAGTGAATC AGCTGATGTT TGAAATATCT GTCTACATTT AATTAGATGT GTTGATTATA  
CCAAGGAGGC ACAAATATGT AGTTCTGTAG ATTTAATAC TAACTTTTCC AGTAAGAAAA ATAATACCAG GTGATTTCAA  
AAAGGGCAGT GATCTATAAA CACTCAAAT GCATCTTTGA ACAGGGGAGC AGAAATAGCT AATTTAATGA AAACAAACCT  
TAAGCACTTT ACTTGGCTTC TAATAAGGCA TCCAAGAAA A

SEQ ID NO:260: (Length of Sequence = 349 Nucleotides)

CAATACATGT ATACAGTGTA CACTGATCAA ATAAGAGTAA TTAGCATATT TATCACCTCA TTTCTTTTGT GGTGAGAACA  
TTTAAATCC TTTCTTTTGT CTATTTTGAA ATATACAGTA CATGCTATT AAGTATAGTC ATCTGGCTGT GCAATAAAC  
ACCAGNACTT ACCCTCCTG TCTGTGACTT TGTACCTGT TCACCACCC TCCAATCCTC TAGTAACTAC CATTCTACTC  
TCTACTCTA TGAGCCTGAC TTTTAAAT TCCATGTGA AGTGAGATTA CATGGTATTA TTCTCTCNGT GGCTGGCTTA  
TTTCACTTTA ACATAATGTC CTCTAAAT

SEQ ID NO:261: (Length of Sequence = 415 Nucleotides)

GGAAGATGAG GATCTAGGTG TGAGCGTGCA GAGCCCTGAG GCTGGGCAGG CAGGGAGCTC TGCCTGCACA ATGATGTAGC  
CATGTGTGGC CACACCAGCA CTGGGCAGCA CCTCTGGGA GGGGGCAGG GCAAGGACAA CTGGAGAGAC AAAGCCAGAT  
GGGGCCACGT CCTAGAGGT GTGTGTGCAC GCATGTGT GTGTGTGTGT GTGTAATAG CAGGGCAGAA ACACACCATG  
TAGGTCAGGC AGGACAGAAA CACATCATGT AGGCCAGGCG TGGTGGCTCA GGCTGTAAAT GCCAGCACTT AGGNAGGCCA  
AAGTGGGCGG ATCACCCTGAG GTCAGGAGTT CGAGACCAGC CTGGCCAACA TTGCAAAACC TCATCTCTAC TAAAATTCTA  
AAATTAGCCA GCGT

SEQ ID NO:262: (Length of Sequence = 382 Nucleotides)

GGCATGGGGT CTGGCTTTAA TGIGTAACTG ACGTGGGTCA CTGAACTGT TCAGGCTGAT CTTGAACTCC TAGGCTCAAG  
TGATCTGCT GCCTTGGCCT CCCAAGTGC TGGAATACAA GGAATGAGTC ACAGCACCA GCCGGCTGTG TTTTGTTTTT  
TGTTTTTAC CCCGACAGT NCTCAGTCAG TCGTTAGCTG GAGTGAAGTG GCGTAACAA GCTCACTGCA GCCTTGATCT  
CCTGGGCTCA AGTATCCTT CCATTTCTC CTTCCAGAT AACTGGTACT GCAGGCCAC GGCACCACAC ATGGCTAATT  
TTTAAATTC GTAGAGACGA GGTCTTGCCA TGTTTGCTCA GGCTCCAGCT GTGTATTCT TT

SEQ ID NO:263: (Length of Sequence = 447 Nucleotides)

TGTATCAACT CAGAATTTCC AGAGAGCTCT TCCTGGCTGA AAAGATGTCC AAGGATCATC TCCGGAATGG AAGAGGTGAG  
GCCGTGAGC TTGTGGGCTG CCCAATCCAT CCAACCTTG GCATTGGGAT CAATGTTGAT GAGGACAAGA CCTTCAACAG  
TGTCGGGTG GTTAAGAGCA TATCTGCCA GGATGTAGGC TCCAGCTCCA ACACCACTC CAATTATTGT AGAGAAATTT  
AGGTACTGCA GGACGCAAGG GATCATGTCT CCAAGCTGGT CCAGAGATGG GTACTGATAT CCCAAAGGGA ACACAGGGGC  
TCCCTCTTC ATTCCAGGGG CATCCACATG GACCCGACA AAGTTCTGAA TGATTTCTG CATGTCTCTG AACTKGAACA  
GTGGCTGGAG GAAAGATTTA TAGTTGAGTC CACATCGGT AGGTAAG

SEQ ID NO:264: (Length of Sequence = 317 Nucleotides)



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TTTTCGCTGT CAACAGACAG TTTATTCTAT ATACAAACAC AATTTTGTAC ACTGCAATTA AATAGAATGG AATGAGCGCT  
 CCTCCGCATT CCTCCCGAG TGA CTGGTTT GGCCGCGGC CACTCCATCC CCGAGTGGGA CTGGACCACG GCCCTGGNTG  
 CTGCCACTGA TGTGGNGCC TGCACCCCAC GTCCCTATGC CCGAGGCGCA ANTCTGCTCT CCGGGGACC CCAAGNCTGG  
 NGCACACCG GGGAGGGCGG GGCCATGGAG AAGGCACTGC AGGGAGCACC AGGCAGAGCC GTGTTGAGGC CGGCCGG

SEQ ID NO:265: (Length of Sequence = 270 Nucleotides)

GCAGAGCAGG TGAAGTGAT CAGGAACCAT AGTTGACAGT TCCAATCAGT AGCTTAAGAA AAAACCGTGT TTGTCTCTTC  
 TGAATGGTT AGAAGTGAGG GAGTTTGCCC CGTTCTGTTT GTAGAGTCTC ATAGTTGGAC TTTCTAGCAT ATATGTGTCC  
 ATTTCTTAT GCTGTAAAAG CAAGTCCTGC AACCAAACCT CCATCAGCCC AATCCCTGAT CCTGATCCC TTCCACCTGC  
 TCTGCTGATG ACCCCCCCAG CTCACTTCT

SEQ ID NO:266: (Length of Sequence = 297 Nucleotides)

ATGAGGCGAG GCGTCGAAG TGCTGGCAT GCAGCAGGTG CTAATGAGTG TTGCAAAGGT GATGTACGC AGGCAGCTTC  
 CCGTGGCCAG AGAAACATTG CAGAGAAGGG ATAAGTAGGG CTTAGTGACT TTGACGGTTC AATGGAAGAA TGACCCAAAG  
 AAGGCTTCAA GGCCAGGCCT GCAGTTCTCC ACCCAAAGG CCTCACTGA TAGCACCCAC TCCCCACAC TCAGCTTTNG  
 GGCCTAGGTC TGGGTACCC AGCTAGAAGC CACAGGACCC TGAGGCTCC GAGGGT

SEQ ID NO:267: (Length of Sequence = 387 Nucleotides)

CTGTGTTTCA TCATGAGCTC GATCAGATGT CTCTGATCT TCAGACTGGT GGCTGCTAT AATGTCTGT GCACGCATTC  
 TTGAGCTTTC CAGGATTTCT GTCTGTTCTC TCTGTTTATC TACAGAAGAA ACTTTCTCTG TGAGTTCTCTG TTCTTGCTAG  
 CGCCTTGAAC TCTCTTCTCT TTCTGGTTTA CGATCCTCT CTTTCCATCT ACCCTGTCTG TCTTCTGTGA GTGCGAGGG  
 ACTAAGAGAA CGAGATCTT GAGGTGCTAC AACTTGGCTC AAGAGTCTGT GTTTTTTCAT TTNTNATCAT CTCCACTGTT  
 GTAGGCATCA CTGTCCGAG AATGTTCAAG CCGGCGCTTT CGGGGGACTG TCTAGGGCTG GGACTCC

SEQ ID NO:268: (Length of Sequence = 318 Nucleotides)

CCTGAAGGTT ACCTCTTTGG AGAGAACATG GATCTGAATC TCCTGGGCG CCGCCCGGTC CAGTTTCCCT ACGTCACTCC  
 TGCCCCCAC GAGCCCGTGA AGACGCTGG GAGCTGGTGA ACATCCGCAA AGACTCCCTG CGGCTGGTGA GTTACAAAGA  
 CGATGCCGAC AGCCCCACCG AGGACGGCGA CAAGCCCCGG GTGCTCTACA GCTGGAGTT CACCTTCGAC GCGATGCC  
 GCGTGGCAT CACCATCTAC TTCCAGGCAT CGGAGGAGTT CCTGAACGGC AGGGCAGTAT ACAGCCCCAA GAGCCCCCT

SEQ ID NO:269: (Length of Sequence = 422 Nucleotides)

ACATGTCTAT TCAGGTCTTT TGCCATTTT GAAATAGCAT TGCTGTCTT TTTGCTGGAT ATTAACCCCT TGTAGGTGC  
 ACAGTTTGA AGTTACCTTT TCTATCTTA TAGGTTATCT CTTCACTCTT GATGTCTTCT GTTGTGTGC AGTAGCTTTT  
 AAGTTTGGTG TAATACCATT GTGTTTTCTC TGCTGCCCTT TTAAGTTTCA CTGGGTCAA AGTTTAAAAT TTGTGAATTC  
 CTATATTTTT AGGGCAATTC TCTGCCACT GTTGAATTA TGCTCAATC TATGCAGTAG AATATTAGTG TGAAATGCTT  
 CTGTACCAAT GGAGATGATG CTGGATGGTC TCTATCATAA ACCCATACCT CATCAACACA AACTGCAATT ACACAAGGGC  
 TCTATATCAT GGATCTCCAT TT

SEQ ID NO:270: (Length of Sequence = 376 Nucleotides)

GAAGAAGAGC CCAGACCTAG GGGAGTATGA TCCACTTACC CAGGCTGACT CAGAGAGAG CGAAGACGAT CTGGTGCTTA  
 ACCTGCAGAA GAATGGAGGG GTCAAAAATG GGAAGAGTCC TTTGGGAGAA GCGCCAGAAC CCGACTCAGA TGCTGAGGTT  
 GCAGAGGCTG CAAAGCACAT CTTCAGAG TCACCACGGA GGGCTACCCC TCAGAACCCC TTNGGGGCTT GGAACAGAAG

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GCGGCTCCT CCTGGTGTG ATATGTGGC ACGTCTGTCT TCCTGCTTGA CTTTGGGGAT CTGATGATC CTGGTGCTCC  
TGTGTGCTTT CTGATCCCC TGCTCTCCA GAGATCTTGA CAGAACTGGA GCCGCA

SEQ ID NO:271: (Length of Sequence = 346 Nucleotides)

TGTTACAGTT CCTTTCTTT GTCTTCTTT TTCTATCTT TATCTATACT TGGACTCTC TCCTTTTCC TCTCTGTTC  
TTTAGCCTCA CCTTTATGCT TATGACTGTN CCCACTAAGA TTTCCACGTT GATCATCAAT TTACGNTA TCTGACTCC  
TACTGCGACT GGCACGATTG GTTCGTCTAT CCTTGAGCG ACTTCTACGA ATGCTTATGA AAAAGAATCA AGTTGGNCAC  
CAAATGTTT ATAGCAGTAG GAAATTTCTT TTAGAGACTT CTGATGGGA ATTTGAAGTG TATGTTGCTA TCAGATCAAG  
TGCAGGAGAG GTATAAGGCT ACTGGA

SEQ ID NO:272: (Length of Sequence = 394 Nucleotides)

GTGTGTGTG TTGAGTGGGA GTCTGCACT GTTCCTGGG CTGGAGTGCA ATGGTGCAAT CTGGGCTCAC TGTAACCTCC  
GCCTCCAGG TTCAAGCCAT TCTCTGCTT CAGCTCTTA GTAGCTGGGA TTACAGGCAC CTGCCAGCAC ACCTGGCTAA  
TTTTTATAT TTNAGTACA GACAGGGTTT CACTATGTTG GCCAGGCTGG NCTTGAATC CTGACCTGTG GATCTGCCA  
CCTCAGCTN CCAAAGTTT TCAGAATTT TTAAGGAAAC ACTTTTAACC CTTAAGGCTT TCTTTCAAAC TCAGATCCCC  
TTACACAATT GATCAGACGT GGCAAAGTTT TGCTTCAAAG TTTTGGACT GGGTTCCAC TTAGGCCTA CTGA

SEQ ID NO:273: (Length of Sequence = 259 Nucleotides)

CAACTGTAC CCAGGCTGCG AGAACGTRAG TTTRAGGAGC CGCAGCATGA TGTTGAGCC GGGTCTTACC AAAGGRATGC  
TGGAGGTGTT TKTGGCCCCG ACCCACCACC CGCACTGCTC GGCGATGAC CAGTCCACCA AGGSCATGA CATCCAGAAC  
GCTTATTTRA ATGGAGTTGG CGATTTGAGC GTGTGGAGT TCTCTGGAA TCCTGTGTAT TTCTGCTGW ATRACTATTT  
TGCTGCAAAT AATCCCACG

SEQ ID NO:274: (Length of Sequence = 348 Nucleotides)

TCCAGTTGT CCGATTGTA ACTCAAAGG TGAATATCA AGGTGTTTT TTTCATTCCA TGTGCCAGT TAATCTTGT  
TTCTTGTTT GGCTGGGATA GAGGGGTCAA GTTATTAAIT TCTTCACACC TACCCTCCTT TTTTCCCTA TCACTGAAGC  
TTTTTAGTGC ATTAGTGGG AGGAGGGTGG GGAGACATAA CCACTGCTTC CATTTAATGG GGTGCACCTG TCCAATAGGC  
GTAGTATCCG GACAGAGCAC GTTTGCAGAA GGGGACTCT TCTTCCAGGT AGCTGAAAGG GGAAGACCT GACGTACTCT  
GGGTAGGTT AGGACTTGCC CTCGTGGT

SEQ ID NO:275: (Length of Sequence = 396 Nucleotides)

GTTTGGTGAA TTGGTCTGT GATAAAATTG GAGTTCAAGA AACAAACAGG AAACCTACAAG TGCCCTTCG CCCCCAGGTC  
ACCGAGTGG CAGGGCAGTG ACCGCTGCTC TCAGGCTGCC CAGTGTGGAC CTGCCGTGCG GAATGCTCCT CTTCCAGTC  
CCTCGCTCC TGTGTCCAG CCACATGCAC CTTCCCTCTA CTTCTGGGAT CCTGCACCA GTCTGCCCC TGTCTCTCA  
GGGCTGCTCC TMTTGGNCCA CAGGACCTCA GCTGGAATGT TGCCCTCTCC AAGAGGCTT CTGACTATT CAGCTCACAG  
TGGCCACCA GCCACAATCT GCCATGTGCT TTGGGGGATT GTCTGTAAAC TGGCAACATA CTGGCAGCCC ATAAC

SEQ ID NO:276: (Length of Sequence = 381 Nucleotides)

GGTGTGGGG AGGCTGCGCA AGGGGGGAG CCGGGGAGC CGGCGCAACC CCGNCCAG CGCACCCAC CGCCGCCCA  
GCAGCAGCAC AAGGAAGAGA TGGCGGCCGA GGCTGCGGA GCGTGGGCT CCCCCATGGA CGACGGGTTT NTGAGCCTGC  
ACTCGCCCTC CTATGTCTG TACAGGGACA GAGCAGAATG GGCTGATATA GATCCGGTGC CGCAGAATGA TGGCCCAAT

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CCCGTGGTCC AGATCATTTA TAGTGACAAA TTTTAGAGAT GTTTATGATT ACTTCOGAGC TGGTCCTGCA GCGTTGATGA  
AAGAAGTGAA CGAGCTTTTA AGTTAACCCG GGATTGCTAT TNAGTTAAAT GCAAGCCAAT T

SEQ ID NO:277: (Length of Sequence = 206 Nucleotides)

TTAATAAGAC AGGGCTGGCG CCGAGTAAT TCAAGCCCTT CGGAAGTGTG ACCGGCTGCC AGGCCTCGGA TGCAATCCTG  
GAGGCGGGAG ATTGGGCTIN AAGACTGGCT CGAGCCGCC AGGGGCTCCA TGGGAGACTA ACGCGGAAGT YCCAGCCGTC  
CCAGTGCCGT GACGTCCCC CTGGTGGGG CTGCACCCG ACTACT

SEQ ID NO:278: (Length of Sequence = 260 Nucleotides)

ACCIGTAATC CCNGCACTTT GGGAGGCTGA GGTGGGCAGA TCAGAGGTC AGGAGATAGA GACCATCCTG GCTAACACGG  
TGAAACCCCA TCTCTACTAG AAAAATACAA AAAATTAGCC GGGCATGGTG GGGGGCGCCT GTAGTCCAG CTAATCGGGA  
GGCTGAGGCA GGAGAATGGC GGAACCCGG GAGGCGGANT TGCACTGAGC TGAGATGCG CCGTCTCTCC AGCCTGGGCA  
ATAGAGTGGG ACTCCATCTC

SEQ ID NO:279: (Length of Sequence = 308 Nucleotides)

GIGTCTGGGC TCAGGGTGG CCAGCTTGCA GAGGAGCAAG CTAGTAGAAA TATGTCAGGG TTCCAAAAC CAGGTCAAGC  
AAGATGCCAT GTCACCCCTG AGCATGCTG TCTTCCAGG GGTGTACCTC TTGGCTGGCA AAGCCAAGGC CAGTGGGNAC  
TTGTATAAAT CACATGGGTA TGTTCTGGT TCAGTGATCT TGGAGTGATG ATGGTAACTN ATGAACAGAG AACTTTYYAG  
AACTTKGGTC CTGTCTCCT CCTGAACCT AGACAAGTTT CACCCCTCCT CCTGTACCCA ACCCCATT

SEQ ID NO:280: (Length of Sequence = 402 Nucleotides)

ATTTTAGCAG CTTTCTTGAA ATTTAAATA TATGTGTAAG TATCTCATTT ATATGCATTT CTAGTTTCTT TATACAACAG  
ATAAATTCT TTTACATCAA ATTTCTGAAT TTGACTAAT TTAGAAATAA TGGAACTCA TCCATTAAAT ATAGTCATAG  
AAGGAAGGAA ATATGAAAAT TAGGATTCA GATGTTTGAA CATAAAAGAT AATTTTAAAC ATTGTCAGTA ATCTATTTCT  
TTTTTTTTT GAGACGGAGT TTGCTCTGT CACCCAGGCT GGAGTGCAGT GGCGCGGTCT TGGCTTACTG CACCTCTGC  
CTCCAGTTC AAGTGGATTC TCCTGCCCTG NCTCCTGAG TAGCTGGGGT TACAGGGGCA TGCCAACATG CCGGGGCTAA  
TT

SEQ ID NO:281: (Length of Sequence = 313 Nucleotides)

GAGAATCCGT CTTAAAAAGA AAAAAGAAA ATTATAGAGG GAGATGAGT GGGACAGAGT CTGGCAGTTC ATCAGGGGGA  
CTGAGAAGGT GGCAATTGGA GGAGAGGAGG CAGTGAGCTG TGCAGTGTCC AGGCAGCCAC CTTCCACAGC GGCCACCATG  
ACGGTGTCTT CATTGCTTTA ACCATTAGTA ATCATTCATT CATTCATTCA TTTATCCGAC GTCAGCTGGA GGNCTGTCCC  
GNGGGGCATG CGCTTAGATT TNGGAGGCTT TCGGGATGC TTGCGCTCCA ACGGGGAAG GCGACTTGG GCT

SEQ ID NO:282: (Length of Sequence = 217 Nucleotides)

TGACCTCAGT TGATCCACCC ACCTTGGCCT CCCAAGTGC TAGTATTATG GCGTGAACC ACCATGNCCA GCGAAAAGC  
TTTIGAGGGG CTGACTTCAA ATCCATGTAG GGAAGTAAAA TGGANGGAAA TTGGGGTGCA TTTTCTAAGG ACCTTTCTAA  
CANATGGCTA TAAINTAAGG GGTTAGGGT CCTTTTTTTT TTTTCAGGGA TACATT

SEQ ID NO:283: (Length of Sequence = 327 Nucleotides)

TAGAGAGCGC TTTACTCCTG GTCCCATGGC GTAAAGATGT GGCTGGGCT GACAAGGCTC AGCCTCCAGT CTTAAGATGG  
GCACAGAAGG GCAAGAAGTA AGATGACGAG TCCAGAATT AGGACAAGC ATGAGCCAAG GCCTGGTCTG AGCAAGGGCA

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GCCCCCTGTC CCAGACACAG GCACCCCCAA TCTCACTTTG GACAGAGCCA ACGTGGGGGG ATCCTCCCGG GCCTGGGCCT  
GTCAAGTCTG CCTGCAGGAC CCTGCCATTG TGCTCAAATC ACAACCATT TTTGCTTCCA ACATTTTAGG GTGCTTGTC  
AGTGAGT

SEQ ID NO:284: (Length of Sequence = 340 Nucleotides)

CTTTGGAAAT GTAAATTGTT ACAAACCTAC TTTAGAGCAA ATTTAGTCAT CCTTCAAAAA TTAAATGTA TACTTATTTT  
CTAAGAATTC GTTTGGCTCA CACAATTGTG AAAAGATAGA TGTACACCAG TGTTCATTAC AACAAATTATG CAACAAATCT  
ATTATGTGCC AGACATTATT CGGAACCTCTG GGAATACATA AGTGAACAAA GCAGATTCTT GATCTCAGGA CCTGGGGTCA  
GGGTCAGGA GAAGCCAAA AACACGCTNG AGAAATACTT TATGCAGTGT GGGGGGAGTG CTACCAGCAG AGCAGGGGAT  
GGAGATGTGA AATCTTGTT

SEQ ID NO:285: (Length of Sequence = 335 Nucleotides)

GACATTCACG GAGGTGGGTT CGACCTCGG TCCCCCACC ATGACAATGA GCTGGCACAG TCGGAGGCCT ACTTTGAAAA  
CGACTGCTGG GTCAGGTACT TCCTGCACAC AGGCCACCTG ACCATTGCAG GCTGCAAAAT GTCAAAGTCA CTAAAAACT  
TCATACCAT TAAAGATGCC TTGAAAAGC ACTCAGCAG GCAGTTGCGG CTGGCCTTCC TCATGCACTC GTGGAAGGAC  
ACCTGGACT ACTCCAGCAA CACCATGGAG TCAGCGCTC AATATGAGAA GTTCTTGAAT GAGTTTCTTCT TTAATGTGA  
AAGATATCCT TCGG

SEQ ID NO:286: (Length of Sequence = 399 Nucleotides)

GCACAATTAT TAAAAAGAGG CCACCTAAAT TCAACTCTCC ATGGATACAG TGTCTGTGGC AATGTTTAAT TAGAGATTAA  
AATTGAGGAA TTGAATAATT GAGGTGCTA ATGAATTGA AAATCAGCA AAGCAAGGAG AGCTGAGCGT TTTCCGACT  
TAGCTTTTCT TTCTTAACC CTTTCTCAT TTCTACTAT TATCACAINT CTGGCCTTGA CTGCTGAGTT TATTACTACC  
CATAACCTG GCCTAAGTGG AAACAAAAA GCTGTAGCCT CTTTGTGAG CTCTGGAGA CATTTGGTCT ATTGGATTAA  
TGACATGTT AGAAGCTTGC AGTTGCAGGA GGCTGACAAT GATGAAATG AGATATGNTG GGCCACCACG CTTTTCTGT

SEQ ID NO:287: (Length of Sequence = 294 Nucleotides)

TTCCAGTTGA ATTACCAAGT GGACAAAATG AGGAAAACAG GTGAACAAGC TTTTCTGTGA TTTACATACA AAGTCAGATC  
AGTTATGGGA CAATAGTATT GAATAGATTT CAGCTTTATG CTGGAGTAAC TGGCATGTGA GCAACTGTG TTGGCGTGGG  
GGTGGAGGGG TGAGGTGGGC GCTAAGCTTT TTTAAGATT TTNCAGGTAC CCTCACTAA AGGCACCGAA GCTTAAAGTA  
GGACAACCAT GGAGCCTTCC TGTGGCAGGA GAGACAACAA AGCGCTATTA TCCT

SEQ ID NO:288: (Length of Sequence = 391 Nucleotides)

TCTACAGATG AGGAAAGCAA GCCTCAAGCA AGGGGGGCCT GATCCTTTCC CTGTTCCCTG TGTATTCCCT GTCTGTGGCA  
AAGCCCATG CCTTGATTCT CTCTCTTTA CTTTCATGTT GAGAAGTAGT TTCTTTCTGC AGTTTATTTA ATTTACTGGC  
AAAATGACGT ATTTTTTTTT CAGCAATGTT TCAGCTAGAT ATTTGCTTTA TGCATGTAAT GTCAATGAAG TACTCATAAG  
TTTTCAAGAA ATGACTGATA TAAATCATGT GTTCCACTAC ATAGTCTAAA TATTTAGTAT TTGGTCATCT ATTTTAATAT  
GTTCAAATTC TGTTAAACAA GNCATAGTCA CTATGTGAAG ATAAAAATAG NCAAGTTGC ATTATGACTT T

SEQ ID NO:289: (Length of Sequence = 198 Nucleotides)

CTTATATTCT ACTTTATTG GTAAACTCA GAACTAACA ATTCACATCC TCCCACCTTC TTCTTTCCGA AGAAGGCAGT  
TTGCAGAGAC AAAAGGCTG TGGCGTGGG ATCATCCACC ATCTCCAGGT TTTACACCCA GGCTACCCAT GGCTTGGCAG  
TCAGGCTCT AGGCTGATTG CTCTCAGAGG CAATAGAA

SEQ ID NO:290: (Length of Sequence = 353 Nucleotides)

GGTTTTCATC TTGGTTTAC AAAAGTCCTA CTATTATTT ATTTTAACTT TAATTTAAAT ATCACCTACC TTAGGTAGAA  
GTTTTCCTTT GGTAAATATA ATATAAAACC GACATTTCTT GGGGGCATAA TAGTAAAGAT GTTAACATTT TTGGTTCTT  
TTTGGATGCT GTATTTGTC TTCTTCTGAA AGTGATGTGT GCCAAGATGG CTCATGTAAC CCAGTTTTGA CTAGGCTATT  
GATATTCTGT CTGGTTAATT TATGAACTG GCTTAAAGCT ATACATATTT CCTTTTAGNTGTAA GATATTCTAG  
ATATATTGGT CTACTGATTC ATAATATCAC TGG

SEQ ID NO:291: (Length of Sequence = 163 Nucleotides)

CCTGGTAGGC CTGCTACACA GTCTTGCAAC GNCCTCGTG CTGGGCTTC TGCGGTGAGG CAGGGGAGTC TGCTTGTCTT  
AGATGTGGT GGTGCAGTCC CAGGACCAAG CTTAAGGAGA GGAGAGCATC TGCTCTGAGA CGGATGGAAG GAGAGAGGTT  
GAG

SEQ ID NO:292: (Length of Sequence = 397 Nucleotides)

AACGGGAAGGT GAGTATGTNA GTATGINTGC CAGACAATGG TGTTTCCATG TCAATGGAGG TTTCTCAGAG AGAGGTGATC  
TGGCTGGAGA AAGCTTAATC TGGTGGCAAT GGACAGGTGA CTTTAAGAAG TGGGGAACGA GGAAGGAGG CCAGTTTGAA  
AATNATAACA AGGGTCCAGA CTCAGTGATG CAGCAGTGAC CATGAGAACA GAGCAGCTGC AGGTAGAAGA TGGAGACAGA  
ACTNGGGAGA TCTGGTGGAG GTAAAGCCGG TGGAAAGATG ATGTCAGGTT TATACCTAGA GGACACATGA TCCATTACA  
AAGCCAGGGG NAACCTAAAG AGAAAACACT TAGAATTTTN GGAGAAAGG CTAGGGCTGG GCCTTAGACA TGGGCTG

SEQ ID NO:293: (Length of Sequence = 360 Nucleotides)

GAGGTAAAT TTACATACAG TGAAATCCAA ATCTTAAGTG TACCACTAGA TAAATTTTGA TAAATGCATT ATGCCTGGTC  
TTCACACACC CTTTTCAATA TATAGAAAAT NTCCAGATAA TTTATTTTGT TGTTTTTTTC ACACACTAAG TTCTAGACTT  
TTCCAGGTCC GAGGGAACCTA TTAGGGGGGA AAGTACTTGT NATAGTAAAA AAGATTTTAG GTGTGTGTGT TTTAAGGTG  
CAGAAACACA TGCAGATTT AAGGTCTGCA ATCTCTGCTT TTTGTTATG TTCCAGTTTT GATCTCAGTG ACATTACAAG  
CAAGCAGAAA CACTCAGACA TGAAATGGCC CAG

SEQ ID NO:294: (Length of Sequence = 321 Nucleotides)

TTTTTTTCAG GNTTCAACCG TTTTATTGGG AGGTTTGTGT TCTGTGAAA TACACTAGAG GGTGGGGAAG GGGACACATT  
CACTTTGCAA GATAAGGTT TCCACCACT AAAGGAAAGG CATGGGGCAG GGCACACTGG GGTTTGGGTC CGTTTTCCCA  
CCTCCTTCTG CTGGGCTCAC TTTTCTTTTC TCTCAGCAAG TACCACAGAA CACAAAGACA AGAAACAAA CAGCAATCA  
ACCTCCAACG GGGCCATGCC AAGCCTTCCC CACTCCCCCA GGCTGGGCAA GGGCTGGGAG GGGGCTGGG CAGCTACTC  
G

SEQ ID NO:295: (Length of Sequence = 165 Nucleotides)

GACACACAGC GCTCCGGCC CGCACAGGG GGCATGTCCA GAGGTGCTGT GTGTCAACAA CTGGTCTTCT AATTGGGAAG  
GAGTTGGAAA GGCTTTTGTG TTGATGAAAA GTTGGAACA GTGGCATA TCINAGAGG AGGAACGAGG CAGCGTGGTG  
AAGCG

SEQ ID NO:296: (Length of Sequence = 315 Nucleotides)

CGAATACAGG TAGTGCCAG CTGGTTGGGC TGGCCAGGA AAATNCTGCT GTGTCAAATA CTGGTGGCCA GGATGAAGCC  
ACAGCTAAGG CTGTGTGGA GCCATTGAG AGCACCAGTC TAATGGGAC TTAAACCAGG ACATCTGACA GTGAGGTTC

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AGATGTGGAA TCTCGTGAAG ACTTAATTAA AAATCACTAC ATGGCAAGNA TAGTGGAAC TACGTCTCAG TTGCAGCTGG  
CTGACAGTAA GTCACTGCAT TTTTATGCCG AGTGCCGAGC ACTGTCTAAA AGACTNGCCT TGGCTGNAAA GTCTA

SEQ ID NO:297: (Length of Sequence = 244 Nucleotides)

AGTACGGTIN NCGCTNAAGC TTGATNATCG RATTGCCAAT CTNCATATTT GTGTAGAAT CATTGTITTT TGIGTCTTCA  
TGTTTCTATA AGATAGGACC AATATTCITT ATGGGCTTT GATTTTATTT TGTAACTTAA ATGTATTAAG GCAATAAATG  
TAATTTTCCA CTNAAAATA TCATTATAGA TTTGGTTACT ACCTACTGCT CAGCAATTTT TTTTCTATC AAAATTCTTC  
CTGG

SEQ ID NO:298: (Length of Sequence = 152 Nucleotides)

CCTGAACAGG TAATGAGAAA AATTTACACA CAAGTGATTT TGAAAACAGA ATGGGTTGCT TACAAATTAC AGGAAATGTT  
ATAACACAAA CCAGAAGAAT TCAATGGAAG GCAATAAGGGAAAT GAAAATTATA AAAGTATCAN GA

SEQ ID NO:299: (Length of Sequence = 374 Nucleotides)

CGATGTTTTT AATGTCATCA CAGTGTGCT CAAAATGAGT GGTGGCATCA TATGTGCGGG AAATAAAGAT CTGGCTTTCT  
GTCCCAAGT CTTTGGTAC CAGGAGGTCA CTGATGCTAA CAAATTTCTG TTCAATTGGT TCCAAGAGCT CCAAAGCTGG  
TCTGATTTCC TTCTCAGGCT CCTTGGTTTC CACAGTTGTA CTAACATATG CAATGTACTT CCCTTGTGCT GCTACATTGT  
GGCAAAGGA GATCATGCAG ACGTAGATAT CTGACTTTG ATTGACTTTG GTTCTGTGGA ATAATGATCT GGCAGGAGTT  
GGCATCATG GTGTCTTTG ATGGGGTGG CTGAGGGATG CAAATAACCT CTTG

SEQ ID NO:300: (Length of Sequence = 365 Nucleotides)

GGCTCACCAA GCTCAGCAAG TACGTGTAAT TCTTCGAGGC CTGCCGGCTG CTGCAGAAGA TGATTGACAT CTCCCTGGAT  
GGCTTCTGTC TGAATCGGT GCAGAAGATC TGCAAGTACC CTCTGCAGCT GGCCGAGCTG CTCAAATACA CGCACCCCA  
GCACAGGGAC TTCAAGGATG TTGAAGCCG CTGTGATGCC ATGAAGAAGC TGGCCAGCT CATCAACGAG CGGAAGGGTA  
GACTTGAGAA CATGACAAG ATTGCTCAGT GGCAGAGCTC CATAGAGGAC TGGGAGGGAG AAGGATCTCT TGGTCAGGAG  
CTCAGAACTC ATCTACTCGG GGGGAGCTGA CCTCGGGTGA CACAG

SEQ ID NO:301: (Length of Sequence = 224 Nucleotides)

GGTATTCAA CAAATAGCCT GAGAATTING GGGGATCTG AATAGAGTA CTATGCTATG TTGGCTAAAA CTGGTGTCCA  
TCACTACAGT GGCAATANTA TTGAAGTGG CACAGCATGC GGAAATACT ACAGAGTGTG CACACTGGCT ATCATTGATC  
CAGGTGACTC TGACATCATT AGAAGCATGC CAGANCAGAC TGGTGAAGA TAAACCTTTT CAGG

SEQ ID NO:302: (Length of Sequence = 363 Nucleotides)

AGTTTCACTC TTGTGCCCCA GGCTGGAGTG CAATGGCGTG ATCTGGGCTC ASTGCAATCK GCACCTTCGG GKTTCAAGCG  
ATTCTCTGTC CTCAGCCTCC CAAGTAGTTG GGATTACAG CATGCGCCAC CATGCCGGC CAATTTTCTA TTTTCTGTAC  
ACACAGGGTT TCTCCATGTT GGTGAGGCTG GTCTCAAAT CCCAACCTCG GTGATCGGTC CACCTCGGCC TCTCAAAGTG  
CTGGGATTAT AGGCATGAGC CACTGTGTC GGCCAGCTCA AACAATTTTA ATGCTTCTTT CAAGNCTATT AGAAACCTTT  
AATTGCTTCT TAAGTTTCTC CCCCACTAT GGAGGAAGCA TAT

SEQ ID NO:303: (Length of Sequence = 253 Nucleotides)

ATGCAGGAAS ATCTACCARG CAAATCGAAA ACAAAAAAG GCAGGGGTTG CAATCCATCT CTCTGATAAA ACAGACTTTA  
AACCAACAR RRTCAAGA CACAGAGARG GCCATARCAT AATAGTAAAG CGGATCAATT CAACAAGAAG AGCTAACTAT

CCTAAATATA TATGCACCCA ATACAGGAGC AACTAGATTTC ATAAAGCAAG TCCTGGAGGT GCCTACAGAG GAGGCTTAGG  
CTCCACACA TTA

SEQ ID NO:304: (Length of Sequence = 416 Nucleotides)

TTTTTTTGAG ATGGAGTACT CGCTCTCTTG CCGGGGCTGG AGTGCACTGG CGGATCTCG GCTCACCCTGC AACCCCTGCC  
TCCCCAGTTC AAGAGGTTCT CCTGCCTCAG CTTCCCGGGT GGCTGGAATT GCAGGCACAC ACCACCATGC CCAGCTGCTT  
TCTGTATTT TTAGTGGAGA CGTGGTTTCA CCATGTTGGC CAGGCTGGTC TTGAGCTCCT GACCTTAAGT GATCOGCCAG  
CCTTGGCCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAC CGTGCCAGG CTGTTTTTTA ACTGACTTTG GATTTTACTC  
CCTTCTATG CAAATTTATT TTAGAATCTG TTTCTTAACC TTAGGGGGTT GGGTTAGACA AGTTTCAAGG GAGCCTCAAG  
TGKAAATTGC TTAAGG

SEQ ID NO:305: (Length of Sequence = 223 Nucleotides)

CACACCCAGC TAATTTTGT ATTTTATAGTA GAGACGGGT TTCACCATGT TGGCTTGGCT GGTCAOGAAC TCCTGGCCTT  
GAGTGATCCC CCTGCCTCAG CTTCCCAAAG TGCTGGGATT ACAGGTGTA GTACGGTGC CCAGCCAGA TTTTATTGTT  
TTAATTACAA ATTTTACGTT AACTGATTCT GCACATTAT ATTTGCACAC TTGTGCTAGT GAG

SEQ ID NO:306: (Length of Sequence = 169 Nucleotides)

GTTTTGCCAC ATTGGCCAGG CTGGTCTGA ACTCCGACC VVGAGGCCA CTTGCCCTGG CCTCTCAAAG TGCTGGGATT  
ACAGGCGTGA GCACCAAGCC CGACCCATAG CTCTTTACAA CTGCCTTGTA AAGAAAGCAT CATTTGGCAC TGTTAGTATT  
TCTCTGAA

SEQ ID NO:307: (Length of Sequence = 303 Nucleotides)

GATTGGTAC AGAGTATGTC AGGAAGACAA CTCAGATTGC CATTTAAAT AAAGTTGTAC ATGAACAATA ATTGGAATCA  
TCAGGTAATT TTTTAAACA AAGGTTCTTC ATTTACTGTT ATGATTGGAA AAAAAATTAG AAAATAAAGT AAGTSCCATA  
GGCTAATTAA AAAATAAAC CTTGGCCGGG CGGGTGGCT TACGCTATA ATCCAGCAC TTTGGGAGGC CGAGACGGGC  
AGATCAGNG GTGAGGAGAT TGAGACCATC CTGGCTAACA CGGTGAAACC CCATCTGTAC TTG

SEQ ID NO:308: (Length of Sequence = 143 Nucleotides)

ATCTAGGAGG CTGAGGTGGG ATGCCCCAG TACTGGAGGT CAGGCTGCA GTACGCATG ATCATGCCAC TACACTCCAK  
CCTGGTGAC AGAGTGAGAC CCTCTSTCAA AAAACCTCAG TCAATVCAA CATAAGTAT ATT

SEQ ID NO:309: (Length of Sequence = 199 Nucleotides)

CCCACCTCA TAANCCCCAC TGGGGAGTCT GGGGGCCTCT ATTGCCATGT GCCTGGAATN ATNATATGCT CATCACTTTA  
TGAAGAATAA AATTGTINTT TCCTGCCCTA AAGTTACATT CGTCTTCCG CTCAAATCCT GATCTGGTCC ATTAAAGAGT  
GTTGCGAGAC AAAGTTTCTG AAAGATTAGA GAAGAATCC

SEQ ID NO:310: (Length of Sequence = 426 Nucleotides)

TCCCTGTACC ACCTCTTCTT GAATACGGAG GAAAGTTCTG TTATGGACTG ATCCCTGAGG AATTCTTCCA GTTCTTTAT  
CCTAAACTG GTGTACAGG ACCCTATGTA CTGGAACTG GGCTATCTT GTACGCTTTA TCCAAAGAAA TATATGTGAT  
TAGCGCAGAG ACCTTCACTG CCTATCAGT ACTAGGTGTA ATGGTCTATG GAATTAATAA ATATGTTCCC TTGTGTGCAG  
ACTTGTCTGA TAAACTCAAT GAGCAAAAC TTGCCCACT AGAAGAGGCG AAGAAGTTCT TCCATCCAAC ACATCCAGAA



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TGCAATTGGA TACGGAGAAG GTCACAACAG GCACTGGTTT CCAGGAAGCG CCATTIACCG TTTTMMATGG GMCAAAGGGA  
GTTACATTGG CTATGGCTTT TGAAG

SEQ ID NO:311: (Length of Sequence = 489 Nucleotides)

TGACTCGGT CCGGATGTG GTGAGGAAG AGTCAGAGAG CTGTGACTGT TTCCAGGGCT TCCAGCTGAC CCACTCTCTG  
GGGGGCGCA CCGGGTCCGG GATGGGCACC CTGCTCATCA GCAAGATCCG GGAAGAGTAC CCAGACCGCA TCATGAACAC  
CTTCAGCGTC ATGCCCTCAC CCAAGGTGTC AGACACGGTR GTGGAGCCCT ACAACGCCAC CCMTCGGTC CACCAGCTGG  
TGGAACAC AGATGAAACC TACTGCATTG ACAACGAGGC CCTGTATGAC ATCTGCTTCC GCACCTGAA GCTGACCACC  
CCACCTACG GGGACCTCAA CCACCTGGTG TCGGCCACCA TGAGCGGGT AACACCTGCT TCGCTTYCC GGGCCAGCTG  
AACGAGACCT GGCAAAGTGG CGGTGACAT GGTGCTTTC CTGGCTGAAT TTTAATGCC CGGTTGGGC CCTACCAGCC  
GGGAAGCA

SEQ ID NO:313: (Length of Sequence = 302 Nucleotides)

CTTCTCATGC CAGTCTAATG ATTGTTTTTA GAAAAGGATA TACATTGACC TTCAATGTAA TAAGAAATGC AACACTTTAC  
GGTGTCCAAC TGCTAAGATT TATTCCAAC TTGTGAGACA CAACTATTTT GCCCAATCCA AATCAAAGGG AATCAAGGCT  
GTGAAATCCA CACAGGACAT CAACGCACAC ATAATGAAA ACTACAGATG GTTCAGAGGC AACCATATAC ACACAAATAA  
TGTAATACT AAATTCATG AAGTAGCTGT CCAGGAATA CTTTCCAAAT AACCTTCAGC AG

SEQ ID NO:315: (Length of Sequence = 339 Nucleotides)

CGCGTTATTT AAATTGTGAA AAATAATGAA TATTAATTTG GAGCATAATA TTAAATACA TGAAAAAGC TGGCTGGGAA  
ATGTTGGCAT GACTTTTCCC AGATGTTAGC ACTGCTTCAA CTTTGTAGAG NGCACTCTGA GTGTAAGTTT ACTAGACTGA  
CATTACTAAA ATCATTGGTG CTATAGAGGC AGGAGAATAC GGGGAATAAG AAAGCCAGTT GCAAGCCAAC AATCCTAAAA  
CTCCTCTTT TGCCATGGAC TGACGGCATA TTAAATGAGA TCATGCATTT TAAGGNATTA ACAGTGTACA CCACATGTGC  
GTGTTCCAAT AAAAGGAAG

SEQ ID NO:316: (Length of Sequence = 430 Nucleotides)

TAAGTGGTG GTGCTGTTCT GGATGCTTCC AGTGGGCCCC GACCAGGTCT GGACAATGCC TGGCGCCCGT CCCCCGCCCC  
TCATCTACAC ACACGCAAGA NTTCGGAGCT CCATGGGGAA CAGAAGCAAG ATATCCGTAA AATCAAAGTC TAGGGGGTGG  
GAATGAAAAG GGAAGTGA GGAACGGGA GCCAAACCA GGAAGACGCC TCTTTTCTG CACATTCCCT CTCCTTTATA  
TACTCAGCTC TTGGCTGTCT CCAGTATGTA CCCACCCTGG TCTTCCAAGC TGGGAGCCAC TTTTATAAC ACAATCACAG  
TTTACAAAC CCAGGAAGG TTCCATGTGG NGAGAGGTTA AGTTTCGNC TGTCCGGG AATTATGACA CTCAGAATAT  
CCCTTTGGT GTAAATGGAA GACAACCTTT

SEQ ID NO:317: (Length of Sequence = 317 Nucleotides)

GTTAATGCTT CTNATACCTA ACAAATCTG GAGGGCAGNC AGCACCAACA CTCAGGGTGC TGGGAAAAGG TGCGTGAGAG  
ATCTGAGGCA TCTCGGGGCG AGGGGAGGGC TGGGAAGGCA GGCTGGCTNG GACCTCGCA TCTTAACCTA ACCTTGACCC  
TCTTTCCATG AGCAGAGTTC CGATGCCCTG GAAGCCTGGG AGAGTGGGGA GAGATCCCG AAAAGGAGAG CAGTGCTCAC  
CCAAAACAG AAGAGTGAGG CTTCCAGGT GCAGCAGGG TGGGAGGTGA TCAAGCAGCG TGGGATTGT AAGCCCG

SEQ ID NO:318: (Length of Sequence = 407 Nucleotides)

CTGCCCCGC ACCTTCCCCG CCTATGCCCC TCGTGAGAT AGGCCCTTCC CTCTCCGGG AGCCTCCCG GCCACGCGAC  
CCCAACTTC TCAGCCGCT CCACCCAGC TTCTGGACC GCCTCTGCA GGGAGGCTC ACAATCAGCA CTGCTCTA



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CAGTGGCCAT GCGGCTGGCG ACCTCAGTGT CCACTCTGT AAGGGGACAA TGCAATCCC TTGCGCTCAT AGGGTGCATG  
 TGCCAGTNTT GATAAAGTGC TGGCCACAGG CCTGCGCTTC CCAGGGCTCA CAACACTGTG TCCCTGACAC ACCCGTGGGC  
 TGTAGTGATT CINTTCATGG GGATTGACT ATAACNGCA GTCAGGAATG AATTTCACAN CATAGCTCAG TACATACACA  
 CATATCT

SEQ ID NO:319: (Length of Sequence = 382 Nucleotides)

CACTGCACAC CTGCGGTGG GGACAGGACA TGAATAAGCA CAGAGCTTTC TTCTTTTGGAG GCCACGCATG TGGTGCAGAG  
 CGGGACCACC TGCATCCACA CAGCCCGGCG CACCTGCTCC TACTTCTGCT TAGCGTGTGA GCAGCTTGGT GACCAGGGTC  
 TOCACCAGGG GGCAGGCCAG GACCGGCTTA CAGCACTTTC TAGGGGTTCT CTGGTCCCGG GCTGGGACAC ATACAGGGCT  
 TAGTAAAGTT CATAGATGGT AGCTAGGCAG CCCCAGGCC CAGGTGACAC CINTCCCTG CCTGNCCTGT ACTGNCCTGCC  
 TGCAGCACTC CTGGGAATCT TGTACGAAGA CAAGGAGAGA CAGGACTTCA TCTTCACCAT CT

SEQ ID NO:320: (Length of Sequence = 368 Nucleotides)

CATCCGGGGC ATGGACAGCC CCGGGGTGN CCGCCGNC CCCCCTCGCC GCGTCGGTG CNGTTCACCA GGCAGCACCT  
 GGACAGCTCC AGAGTCGGGG AAGCGCATG GTTCTGCGC AGAAAGGATG CCGGTGGGG CCGGCAGATC CTGCCAGGAC  
 TAGGGGCCTT CCTTTTCCAT CAGGAGCCTG CAAGAGAAAC AAGAAAACAT TAGAGGGCT TCTGTGTAGG GGGAGGGCAA  
 GTTGAAGTCT TCTTCTCT TGTAGGTACT AATTAAACAC CTGCTGINTG CCTGGTACTN TGCAGGGTGG GACAGGCATC  
 ATAGCAACTC ACAGTGGTCC CCTCTCTTT GTGCCATAG TCTAGTAG

SEQ ID NO:321: (Length of Sequence = 355 Nucleotides)

GGTGGACTGT GCTGTGAAC TGAGCTGAAC TGGGATCAGG AGAAGGAGAA GTGGGGATTG AGCCCTCAC CTCCACACAC  
 TCCTCTCTGT GCTGAAAT CCTCCATTAA GCAGCATGCG TGTCCTCTGT AAACACCCAC ATTAAAGCCAT TATTCATCTT  
 ATGGCTINAG TAGGGGTAG TCCCTCAGAT CCTTCTGCG TGAAAGCGGA TCCTGATAGA GAGAAGGGAA GAGAGATGGA  
 TGGNTCTGGG GACGGCAGGC TGGTCCAAGA GTGGGGAGGA AAGATGTCTC TCGGACTCTN GGNAGAGAA TATTTCTGG  
 GGGAAATATG AGGCACCANA GGCAAGCTCA AGAGG

SEQ ID NO:322: (Length of Sequence = 225 Nucleotides)

CTCTCACTTC TCACCAGGCA CCAACAAAGC CCCCAGGCAG CTCCATCTTT CCAATCCANT CCAATTATCC CAATCTCTAC  
 CCCAGGATCC CCAAACTCC TCCCACTTCA CCTCTGCCAC AGACCGCTC GCCCCCAAAC TTCAGCCTNC CCTCATCTGC  
 CCTNACCACC CACAGCCCT CCTACCTAGC CCTCTCCGC GACGGGCCCG CGGGCTCCCC ACATT

SEQ ID NO:323: (Length of Sequence = 250 Nucleotides)

CTCTCGCTCC TGTCGGTGAC CTGCGAGATG CAGGTGACAG CTTGCCCTTC CGTTTTTNTC TTTCAGTCC CGCTGCGCGG  
 ATTGGGTTC AGCCCTGCC ACAGCCCGG TACATCCCG CTACACTCAC CGATGTGCC TAGCAACCG GCTGCGCGCC  
 AGCATCCGA ACGAGGTCC CCGGCTCCA GTTCTCTGNN GGGAGGGAG AGGGGTGTG CTCTCCAGC CCCCAGCAGC  
 CTGGTGTCTT

SEQ ID NO:324: (Length of Sequence = 338 Nucleotides)

GTNTCTTAT GCGGATAAAA TTTCINAGGT AAGAAAGTT AGCTCTGAGC AGCCCTCCG CTGATACTAA TACTTTACCA  
 ATGGAGATT TCTTTTCTT TTCTGTTTT GAGACAGGT CTCACTTGT TTCCAGGCT GGAGTGTAGT GGTGCCATCA  
 TGGATCACTG CAGCCTCCAT TTCCCTGGCT CAAGCCATCC TCCACCTCA GCCTCCCGAG TAGCTGGGAC TACAAGGTGT

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GCACCACCAC GACTGGCTAA TTTTAAATTT TTNNITAGAG ACGGGGGTTT CCTATGTTG CCCAGGCTGG CTTGAATTC  
TGGGCTTCAA GTGATCCT

SEQ ID NO:325: (Length of Sequence = 461 Nucleotides)

ACTCCAGACT CCTCCAGCTG TCATGGATCC TGGGCCAGGG GATCCCGNAC TCACCCAAAG TGGGGCTTTG GCGGTGGTG  
GGCCGGTTCA GTGGTGGAGC GTCTTTTGT CCAGCTCAGA ACCTGCTGCC GGTCCGGTCC CAGAAAAGTT TCTAGCGGGT  
GTAGTTGCCA AAATTAGGGT CTGCTACTGC TGGGCTGGCG GTGGGCGCCT CATCCAGCC TTGGAATCC TTGCTAGTA  
GCGGAAGTT CTAAACAGCA AAGGATACAA GGCCCTTGA GCGCAAGTAA ATTTCCCTC TTGCAGCAAC AGGTGCTCTC  
CAAACCAAGC AGCGTCCAG TGTGTCGGT GGCTGGAGTT CTGCAGTNGG GTGTGGGAT TGGGAAGGTG CACAGGCAGC  
CGCTTGAGAC CCAGAGGCAG TTNGGGGGAG AGGCCTTGGG CTCAGAGGCC TTTCTTTGT T

SEQ ID NO:326: (Length of Sequence = 391 Nucleotides)

GGCCCTCCAG TGTCTGCAG AGAGGCATC TTGCCAAGTG TCATTGATGA CGCAGCTGAA AACCAGAAAC ATTTCATTT  
CCAGCCACGA GACTGCAGCA ATCTGCTCTT TGGACTGCAC TTAGGAAAC CGAGGCCAG ATAAGTACC CCTCAAAGC  
CCCCAGGAGC GCAAATCAA AGGGGCTGAG GTGCTCTGAA CAGCCGAGC AAATTAAACC ACCTAATTT GCGCTACTCC  
CACTGCCCTG AAGCAGCCTG TGGTGGGAGG TGGGGGTGGA TACAGTGTTA CAAAGAGAAA CTTAGTGTG AGCCATAGAT  
TGCTAATCAG TAACAAATA TCCTCTAAA CCCAGTCTG CTTGAACCC ACAGGCTCAG GATGGTAAAT A

SEQ ID NO:327: (Length of Sequence = 438 Nucleotides)

TACTGACTGA CCTGGG GATTCACAGC CGAGACGTTT CTGCTCCATT CCGGCAGGAG CTACCTTCCC GAGCCGCGCT  
TTGCTACCT GTAGGAG TAGAGGGAAA TAAGACAGCC CTTCTTAGGA TGGTGGAGTG GCTAGAAAGA AGCAATCCAC  
GCCAAAGGCT TAGCTCAGTT CCTAGACTTA GTAAATGCTC AATAAATGTC TGCCATTTT ATTATTATT ATNATGCTTC  
CAGCTGCCTT GGAAGGAGG TTTGAGGCC AGAAGGACC TTGGAGAGAC CTCGGTTAAA TCTCTAGGC CATCTTTATT  
TTTAGGATGG AGTAACTTGC TCAGGACCTA CATCTAACAT TGTGGAGGGG ATGCGTTTT TAAGTAGGAA TTCTTNGACT  
AGACCTCTCA GCAACCTTT CTNTCCGTG ACAGTGGG

SEQ ID NO:328: (Length of Sequence = 400 Nucleotides)

TTGCCCTCTC GGCCTAGAAG TCTCCATTA TGGTGTCTGT TCTGCTGGGA CCCACGGGC GCTGCACAGG GAACCATGTG  
GCCGTGAACC TCAAGTCNG NCCAGCAGG GTCAATTGTC TCAGNCCACC CCTCCCTACC CCCAGTATCC TCTCTCTTT  
ATAGATCATC CATTAGTGC CAGACACTGC AGAAGGCACA TTGACTAATA TTAAATATTA GCCAGCTAC CTTGCTGGGC  
TGTCTTCTT AGAAATGAGG AAGTGGAGG TTAAGTGGAT TTCTCAAGGT CTTGCAGCTG GTAAATGGCA GAACAGGAT  
TTGAACTCAG GTGTGCATGA CTTCAAAGGA AGACACCACT GAGGCTCTCT CTANTGGGTC TGCNTCCCTA CCGGCCCTGG

SEQ ID NO:329: (Length of Sequence = 227 Nucleotides)

GGCTGGGCTA AACTCCAGAC GCTGGCCACC TTCTAGGGT GGAGATGACA GAACAGGACA GGAGCCATGG GGCTCCCGG  
GCGGTAGGG GTGGGTGATG TTCTTGGCT TGGGGCAGT TACAAGGGTA CAGTGGGCT GTTTGAAGGG CAAAAGTTCT  
GTAAGTNGT CCNACAGC CAAAGAAACC CCAGAGCCGT CTTTCAGCTG ACTACGCCT GGAAGAG

SEQ ID NO:330: (Length of Sequence = 401 Nucleotides)

TGAAAATATA TCACTGTTC AGAGGGACAA CAAAGGCAGT TAGACTGTCC TGAAAGTTC TGCTCAGGC TGAAATTTTT  
GTAGCACTTG ATCAGTTGCA AAGTGATCTT CCTTTAATA TCTCATTTTA TCATTGGGTA TCTGAAGAGG AAGTGGAAAT  
GGGTAAAGAA TTAGGTTCT TGCCATAGCA TTTGGCTCC CAGGTTAGC CTCAGGTGG AGGACCTTA AAGAAAATC

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TAAGGATTTT AAGGAGAGTC AAATCTTACA TTCTATCCAGG CAAACATCTA CTCTTCCATT GATTAAATGNN TCCACTCATC  
 CGTGCAACAC ATTCACTCTT TCATCCATCC ATTCATCCAT CTATCTCINCA TCAATCCATC CATGTATCTT TCATTCATCC  
 A

SEQ ID NO:331: (Length of Sequence = 322 Nucleotides)

CCCAACGTTG CCCCGCCTTT GTCTCCAGCG GACTGGAAG AACCCACCAT TGTGAAGCAC AGAAAATGTC COGCACTCTT  
 ATTGGCTAGG TTCCCGACT TCGCTCTCG GTTGGTGGTT GGCTTTGCCT GTTACCTGTG TTGCCCACTA CCACTCGCTC  
 CGCGAGCCC CAAGGATGGA TCGCTATCCC GTAGCCGGGT GTTCGGGAGC GCTGCGGGCA AAGCAGACCG CCTTGCGCCT  
 ATTATGGGTT GAGTGGCTCT GTACTCTAGA TCGCTCTGT CACTTACTAA TGGGCGGTGT TGCCTTCGCG ACTGCAGGTT  
 TT

SEQ ID NO:332: (Length of Sequence = 441 Nucleotides)

GGCTCAAGNA ACCTGCACTC TTGCACTCTG GCCTTCTCCC AGGCTGAGCT TTATCATATC ATCAGCAGCA ACCTGGAGAA  
 AATGTGTAAC CCAAAGGGTG AAGAAAAGCC ATCTATGTAC TGAACCGGG ACTAGAAGGA AAATAAATGA TCTATATGTT  
 GTGTGGATTC CCTTCTGGCG TGTGTCTTTC ATTCAAAAAG CATTATATGA GTGGCACCTA TGTCCAGCCT GAAGATGAAT  
 GTGGTGGGAA GGGGTGGGTG TCACAAAGAC AAAGATGACT TAGATGCCCA CTGTAATCTT GACTGTGAGA AAGAGGGGAT  
 TCAGGCCCTT TCTCATCCAG TATCAATGT GGCATCTCCC CTCCCTAGT CACCTCTTAT CTTCACTTAC CTCTTTCTT  
 CTCTGTCTA TCTGTTTTCC ATCTAAGGCA AAAAGGGGGG G

SEQ ID NO:333: (Length of Sequence = 354 Nucleotides)

AGAAGCGTAG ACOGAGTAGC TTGAGCGCT CTTCGGTGA CCTTTTCCCA GGGCCAGAGG GCCTTAGGGT TGGGGTCTC  
 GCTCAGGCAC AGAGNCCGA CACGAGCGG CGGCTTCCC GGGATCGAGG GACGCGCAG CCAGAGGAGA CGAAAGGAAC  
 CCGGGTGGGA CCAGATGGGA ACCACTGACC ATTGCCCATG GGGCCCTAG TGAGTNTGGA TTTNGCGGGG TTCGGGGGTT  
 CGAGCGGGA CCTCGCGAC CCTCACTCA CGCTTCTC TTTCNCAGG GNCCTAGNAG CCAGAATGTC ACTGAATAGC  
 TNGTTCAGT TCCTAAGTAA GTCCCCAGGC CCAT

SEQ ID NO:334: (Length of Sequence = 196 Nucleotides)

CTCCCGCTCC GCACCGCCT TTCCGAGCA GGCTACACCT CTCCCTGGCG CATCTTACT GGAAAGCCGG CAGNGGNG  
 GGAGAAGTGA GNCCTCTC CGGCTCTCT CGTCTGCT GGCTGAGCG GGGGATGGCT CCGGAGGGAG ACACTCAGGA  
 AACCACTCC GCGCTTCCC CATCTTATC CAGCG

SEQ ID NO:335: (Length of Sequence = 261 Nucleotides)

TCGAGAGCT GTCTGGGGCC AACGTGCTGG CTGAGTACTA CTGGCTCANA CGCGCCTGC TGGGGGCCCC TGGNAATNIA  
 AGTCTGCCC OGGCTGTG CCGCTCTC CTGANAGCC CCTGCTCC TGGGCACAGG GAAGCTCCA TAGGCTAGTA  
 GCATCAGT GCGAGGCCA GAGCTTACTG GACTTCCAA GTCTATGG GACTAGGGCT GAGGGTACAC ATCTGCTTT  
 TTCCAGAAT ATAAGTTTTG G

SEQ ID NO:336: (Length of Sequence = 191 Nucleotides)

CGGAAAGCG CTTCGGCCAC ATCCAGCAGC AGTAGCAGCC GCAAGGNCG GGACTCGAAG GCCACCGNA GNOGGACTAA  
 GTGCTCCAAG GAGCGCCTT CGGCCTACAA GGAACCGNC AGCTTACC GGGAGGACAA GACCGAGCCT AAGGCTACA  
 GGGGCGGGG GTCCNTCAGC CCACTGGGAG G

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SEQ ID NO:337: (Length of Sequence = 279 Nucleotides)

CCTTAGGGCT CCTCCTGACT CCTTCCAACCT CCCAAGTCTG CAGCCAGGT AAAGCCAGAG CAGACTNAAG GCAAGTTTTT  
 AGGAAACCG GNGGCTTGAT CCAGACTCAC AATCTCCCTG CAAAAGTKTT CAGAACACAC CGCACAAACA CACACACGNC  
 TCACAAAACCT TCTGAATGTC GCTCTGTCTC CACCTTCTCC AGTCACCGAA AGACCTCGGC CTGAATTGGA GCGCGCAGCC  
 GTAGCTGTCC CINTCCACCT GINGCCCTCG CGGAGGCTT

SEQ ID NO:338: (Length of Sequence = 339 Nucleotides)

CCACNCGTGG AGGGAGGCAA AGGGGCAGCA AGAGAGAGGG AGGAAGCCCC ACTCTTTTAA AACCAACCAGA TCTCTTGTRA  
 ACTGAGAACT CCCTATCAC CAAGGGGACG GTGCTAGACC ATTCATGAGG GWTCCGCTC CATGGGCCAA TCCCCTCCCA  
 CCAGGCCAC CTCCAACACT GGAAATAACC TCCAGCAGG CCGCGCTCCA GCACTGGAAA TAATGCTTCA GGTGAGACT  
 GGAAGGGGAC TGATGGAGCC TGGWTGTTK TCCCCGCCA GSTCTMACG TGAACCGTAA TCCCAATGC TGGAGGCGG  
 CCTGGTGGG AGGTGACTG

SEQ ID NO:339: (Length of Sequence = 334 Nucleotides)

GGCACGGGC TGTCTCTNGT CCAGCTAGCC TCACAGGGAG TGGCCTCTAA AACNGGCCG CCCACNCCAT TTGGAAGCTG  
 TCCCGGTTT TCCGTGAAGT CCTCCCGGC TGTGGTCTCC TGGATGGTCT GGACCAACAG CTTGGGGATG AGGGGAGGCT  
 CGGGGGCAAG GGCAGGAGCC CCAGCCAGG GCTGGGGTIN TGGCTGATCG AAGAGCTGCA CCACCCNGTA GCTGGCCAGG  
 TGAGTATNGG CGTCCACCAG GTGCAGACAC ACATTCTTTT CCTTACAGC CTCCTTACCC TGGAGTTTAT AGCCAAACGT  
 GAGTCTGATC CAAT

SEQ ID NO:340: (Length of Sequence = 450 Nucleotides)

GGCCCCACAA TCCCTTCTG GCTCCGGGA CGGGCGGGC GGGGAGAGC GCGGAAATA ATTTTNTGTT TGGTCTCTC  
 TGCCCCAGT CCTTCGCCG GGGACGGCA GACGGGAGAA GGTGCGGGA GCGGAAGCA GGAGCGGGAG CGCGCGGCC  
 TGGCAGCAT AGGGCGGCG AGAGGGCAG AGCAGGGATT GAGCACCTAC TGTTNGCCTT CACGCTTTAC AAAAGGATTT  
 TCGTTCGATG TTTACTACAG CCCCTGCCG GGGTACTGA TGCCCCATTT ACAGAGGGAC AAGCCGATT TGGAGAGGT  
 GAAGTCACTC GCGAAAGTC GCACCGCCAG GGTCTGCGTG ACACCTTAA GCAGTGTTC GTTACCCCGG GGAGAGCGG  
 ATGAACTGA ACCACTTGTT GGCTTGGTTC CTGCTCTTC TCGTTTTTT

SEQ ID NO:341: (Length of Sequence = 192 Nucleotides)

TTCAAACCT GCGGCACGG CTGTCCCTC GAGGCCCGC CCCTTCCCT TCCGAGAGC CCACGCTGG GTCCTAAAGC  
 CCACGCTGG GTCTAAAGC CGCCGGGTT TTACCCAGG ACGGGCTGG GGAAACNGG TCTTCTAG CTCTTGNTT  
 ACTTCTGA GACTTCTTAA AACGAGAGGA GA

SEQ ID NO:342: (Length of Sequence = 229 Nucleotides)

GTGGTAACT TTTTAAAAA CATAAATACC ATACAATTCA TCCTTTTAA GTGTGTAAT CAGTGGTTTT TGGTATATC  
 AGTGTGCAC AGTCATCACC ACTAATCCA GAATATTTT ATCNCCTA CCGCTGTAT TCCATTTCT CTCTCCCGC  
 CAGATCTGG CAACGCTGA TCTACTTCT GTCTTTTACA GACTTATCTG TTCTGGACAT TTCACATAA

SEQ ID NO:343: (Length of Sequence = 229 Nucleotides)

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TGCTCCAGGA AATTGGAGTT CNAGCTGAAG GCCTTGCNGC ACTCCGNGCA CTGCTAGGGC TTCINGCCCG TINTCGTGGC  
 TGGTGTCTGC ACCAGCGTGG TGCTTCGNCC GAAGACTTGC CGCAGTCCGG GCAGCGGAAG GGCCTCAGGC CGCTGTGTGT  
 CTCTGGTGG TGGATGAGCT GCGAGTNCGC GCGGAAGGCC TTNCCGCACT NCTGCAAGC GTAGGGCTT

SEQ ID NO:344: (Length of Sequence = 227 Nucleotides)

TCGCAGATC ANATTCAACC TTGCCAGAGG TCAGGSCCCC CGGCTTGGC GCGGGCCAG AAGCGTACT TGGCTTCTG  
 GAATGCATGC CCTTAAACAT CTCTAGACTA GGGCAGTGT CCGCAACCA TGGAGGCCCT CCATCACCAT CCTGCAGCA  
 TCACCACNT CCAACCCCA TGTCACCC TGGNGTTC ATACCTGTAG TAAGAGAGCA AACCAT

SEQ ID NO:345: (Length of Sequence = 249 Nucleotides)

GGCAATGTT GTACAGATG TGTGAGATT TTSCAGAGGA CATAAGTTGG CTGTGAGGWA GAACACAGAG GTTSCCTATT  
 TTTTAGGCAG GAAAGAAAGC CTGCATTTT CTGTGTGTGT GTNTCAATAA ATCTGAATAA CACCTTGAAA GGGTTAAAA  
 GCTGAGCACC AGGTGTTTC TTCCACTTT CCAGAGTAAT TTAAGCACAC NSCAAAGTTA TCTCCCTTC TCCCCACA  
 GCCAGCTTA

SEQ ID NO:346: (Length of Sequence = 356 Nucleotides)

ACCTAGTCCC GCAGCGCTG CAGCGCTGG GTTGGGGAA GAGCTGGACG CCGAGCTAGA GGAAGAGGCA GAGCTGGACA  
 CAGTGGCGGC GGAATGGC CACINCTTC GGAGCCGAN CTCTCCGCA CTGGAGAGGA CTCTCTCTG GCTGGGGCGC  
 TCTTGGTTC GCTCCGCTC TGCTGCTGT GGGGCAATT NGCGGGCGG TTCTTGAACC AGACCTGCAG TGGGCGGAT  
 GGGGAGAGT GGGTCAAAG GAGCTAGGG AGCTTNTGC TCCACGNC CTTGGACCA ACTCCCGTC CAGAATATCG  
 CAATCCCTTC TCACGAGGC CTTCGACCT TCTGT

SEQ ID NO:347: (Length of Sequence = 155 Nucleotides)

GCGCGGTGC GTGGATGCC CAGCTCGGT CCAGACCCG GGGATGCAGA CCGGTTCAG TCAGGCTTGA GGGCTGCTCC  
 GCATAGACCA AGTCCGGG AAGGCACACA GTGGCGAGG GCGCGCGC TTKGGCTACG GCTGTATGG TATCT

SEQ ID NO:348: (Length of Sequence = 362 Nucleotides)

AATTCGATT TAACGATTG TCTATTCTG CTCATACAT TCAAGTTAA ATGCAAGCAT AAAATGTTA TCAACAAATC  
 TAGAGAGCAC TTGGATTIN AATTTCTG TGATCAGT AAGGAGCATA AAAAGAGTA TCTNCTGTTA CACAAGGCTT  
 GTNCTCTTT TACATCTCA GACTTAAAT CTGTAGAAG TAACAGCTTT GTATTAGGA CAGAAGCTTA GTGGTCAAA  
 ACAAAAATA AACTGAAAT ACAATTCGG NATTANTGAT ACTGTGTGTC TCAAAGGATA CCTGAACAT TACANINACT  
 AATAATTTG GCAATGAGAT TCCNGGTGN TTCAACTTTT TG

SEQ ID NO:349: (Length of Sequence = 342 Nucleotides)

AATTCCTTT TTTTTTTTT TTTTTTTTT TTTTCAAGTAT CACAATGTT ATTGATAGAT ACAAGTATAT  
 AAAATCAGGG CATGANCATG ACTGATAAA TTAAGTAGAC TTAATTTCAA TACTATAATA GNGGGACCA ATTCAAATTC  
 TCACCATTTG TTTCACACCC ACAAAAACCA CTTCAGGSC ATTAACGNTC TCTCAAACT GNTCAGTTTT GTGCAAGTAA  
 ACCATGTTT TTTTAAAAAG ACTGTGTGAC TTGCCAGGC TCAAGGTTAT TAAATCTAG GCACATAAAG NCCATTACTA  
 GGGTAGGAA ATACAGSCAA TT

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SEQ ID NO:350: (Length of Sequence = 384 Nucleotides)

GATCTGTGCT AGCTGTGAGG CAGCTCTGGA ACGTGAAGAG CTGTTTGTTT TGANCCGTGA ACAAACCTGT GTTTTGAGTT  
TAGCTGACAT TAAAGAAAAA AGTTCATCAC GTGACTGTTA ATGTAAACCT GGTATTATAA ATAACATTTT AAAACAGGAG  
AAATCTGGTA AGTTGTAGG NITCTAAAT CTTTTAGTC GTTTCAGTGA GATATTAAAT TTCAGTAGAC AGAACCCAAA  
AAGAGATTTT ATTTCTTTCT AATCACTTTG GCTTCINTCT NTTTTNTTAA GTAGGTAAAA ACCCTCCTTG GTGGGCACCT  
AAGCAGGATG CAGCCAATTA GTTCATGAAC CCAGCTGCGG ACGTGAAGGC TTAAATCTA AGGA

SEQ ID NO:351: (Length of Sequence = 305 Nucleotides)

ATCTGACCC TCCCCACTGC AAGCCCAGGG AGCCCCAGCC CAAGATGGCC AGCCTGAAAC TGTGGCCAG GGCTCCTCTT  
GTGGCCATGT ACCCAGGGCT GGCTGGCCTG CCATTGCTT CTCCCGGAG ACAGCCGTTT TTCTGCAACC ACACCCCGTG  
CCTAGCCACA ACCCCAGGCT GCAGCTGCTC AGAAGCTCCA GGCATTTTGT TTCTGGTGAC CGCCCTAAT GGGATATCGG  
TGATCACTGG TCCACCCCTC CTGTCAGGGC TTTTCTGGGG GCTGCTCTTG GAAATGAAGT CTAA

SEQ ID NO:352: (Length of Sequence = 270 Nucleotides)

GAAATTACCC ATGGTCATAT CTAGCCTACA AAGAAGAGAA AATACAGTGA TTCAAGTTTC ATTGTATTCC TCTCATTGAT  
ATATTTATCA ACCTTCCAAT TGAAGGAAGT GTCTCTAGG CCTTTACAAA GAATGTAAAC AGGGTTTAGG TATACAAGTT  
GCATATGATA AATCTGTCAT GTTCTATAT AAATCTGTCC ATATCCTCT TCTGAAATGC ATTATTTTGT GGGGAAATTA  
AAATGTGATG CAAAGATCCT TATACCTTGT

SEQ ID NO:353: (Length of Sequence = 195 Nucleotides)

GTGTGATTCC ATTTATATGA AATGNCCAGA ACAGGGAAAA CCTATTINAG ACAACAGAGA CACAAAGTCG ATCAGCAGTT  
GCCAGGGGAG GAGGAAGACG GGAGGGGAAA TNATGTCTTC ACGGGTGAT GACAGAATGT NCCAGAACGT GACAGAGGTG  
GTGCTACAC AACTTTNTGG NTGTACTAAA TGCG

SEQ ID NO:354: (Length of Sequence = 388 Nucleotides)

GCCAATTTT TTATTTTGT AGAGATGGAG TCTCCCAATG TTGCCAGGC TGGTCTTAAA CTCCTAGGCT CAAGGGATCC  
TCCAGCTGG GCCTCCAAA GTGCTGGGAT GATAGGCATG AACCACCAT CCCAGCCAT TTCTTTTTC CCTTTGCACA  
GTACCAGATA TATGGTGGT ACTGCAGAAA TAATTTCCCC CTGCCCTCTA CATTGATCAT TTGATGACCA AATAGTGTCC  
GTCTAGCCAC TTATTTATGA TTGTACAAA ACATTCGCT TTCTGAGGTA GACAGTGATA TTCTGAAGCC ATCAGTAAGA  
GTAATTTTTC AGINTGTG AAAGTGGNCA TTCCTGTGT AAAGGTCAGC CTGTCAAGGA AATAGCAT

SEQ ID NO:355: (Length of Sequence = 288 Nucleotides)

TAAAGTGAAG TATTGGGAAA GGAACATCT CACTCTGATA GATTGAATT TNCTATTTCT GCTCTGTGAC AAAACCTGA  
GTTGATATGT GATCAGACAT TTACAAGGCC CTGCATTCTA CCTGNAATG GCTATAGTGG TGTGAGCTG CTGTGAGATG  
ATTACTGCA ATTTGTCACT TTTGAAACT GTTCCAAAT AGTCTGCTGA CAGCCCTCC CCTCATGAAA ACATCTCTCC  
TTTTCCAGTT AAAAAACAG TCAAAAACA CAAAAAAGG CCACCTCC

SEQ ID NO:356: (Length of Sequence = 401 Nucleotides)

167

GGAAATTAGG TTGGTTATTA ACATGTATAG ATGGAAGTGG GGTGAAAAA AAAAGGAAAT GGGAAATGGAG TGAAGGGTT  
 GGGTGGGAGA GACACTTCAC AGTATCTTT TTGTTTTGAC TTGGAAATG TTACTATTTC ATAACTTAA AAAAATGCAA  
 AAAAAAATA TCAAACTAG GTAGGAAGGA GAACAAATG AAATATAACC AGAAAGGAAT AANCCTAACA CATTTTGAGT  
 GAATCACAAA GCCAAACCA AAAAGAGCTA ATTTAAGTCA CTTTAAACT TGGTGTAA CTACCTACAC TCAGTCTAAA  
 AACGGNAAT AAGGTTAAAG AAATAGTGA ACTCTAGTTA GTTGGGTCTT TTCTTTACAG CAGTATGGG ATGGCAACCT  
 G

SEQ ID NO:357: (Length of Sequence = 275 Nucleotides)

CAGACAGTGG ATAATAACA CCTCATAGG AAACCGATCT CAGAATGANC TCTGGAGTAT GAAAAGATC ATTTCTTTTT  
 GINCTGTAA CTTAGCATTC CTTCTAGGCT TCINCTCCTT TAATTGAACC ACAGCTTAGC TCATGTATTC TTTTATTAAC  
 ACCCTGCTCT CATGTCCATA AGATTCAGGA ATTTAGGAAA TTAGGCTGGT TTGAAGAGGG TAGAAAGCAA TAAAGGCAGN  
 AAAAAATAAG NCTAAAATCA GGGGAAGATG TATTT

SEQ ID NO:358: (Length of Sequence = 314 Nucleotides)

GTGAAGGAAG TATGAAACT GAGACTAATA TTATGAAGTC TTTTTTAA TCTTTATCTT ATTGCCCAIT TTTAACCCT  
 TGGTGTGTA AATGGAAAT AAATATNCTC TTCGCGATAG ATAATATGTC AATAACCAA AGGTGGCCTT AACCAATAAT  
 TGGCCCACT TTAAATTAT ACCCTAAAGA TATATAAATT ANCTAATCTA AAATTAAATG CAATTTTGCT ATGACTTAA  
 GGTTCANTAA TCCTGTATAA GNGATCCNNT TTATGCAGTC ACTTAGGCAT GAAGTTGGCA ATTCATCTAA ACTT

SEQ ID NO:359: (Length of Sequence = 372 Nucleotides)

CAAGAGAGAC ATAGCAGGCA TTGAACAAT GGAAATGCCC ACATAGCAGA AGGGAGTGAG GGGATCCAAA CTACAAGAGC  
 GACAAATCA ACTGTGGATC CAGAGACGAA AAAATGTCT GTAGTGCAA GGTAACTG TGAGATGAAA AAAAAAGAAC  
 CATTTTGA AAAANGGAAT ATTAGAAATA TTGAAGTAA TATCATAAGT CATCTATTA CAAAGGCATT AACTCCTCC  
 TATCAATAGA ATGTACCACT TTTAAANTTT TTAGTAGGAA TATATCTTT ATTTTATTA CAGAAATCAN GGGACAAAGA  
 GGATTTGATC CATCCATACT TCCTACTCTT ATTGGGTTTG TCAAAATGTA GG

SEQ ID NO:360: (Length of Sequence = 395 Nucleotides)

GCATCTTTT GATACCCACC TAATAAGAC AATCTCTAAA ACCAAATAAT AGGCTATGAA ATGTATGTG AGINCTTATT  
 TCATTCAGA CAGAGCTTAC CTTTAAGTCT CCAGCTGAGA CAGTTGGTTT TATCTTCTG AAAGCAGTTT GTCAAGTGT  
 TTCAAGTAAA TCAAAGATC GGTAAATCAA TTCTTAGCG AATTGGATTA GACACTCTCA TTTCAAATGG CAGTTTATG  
 CTTACTCATT GTCTGAATA ANCTAAATA CTTTATGCTA TCTTCTGCT CCATTATTA TGTAATCACT GGNCTTAG  
 TATCTGCTT TAGNCAATAT AAAATCACIT NCAGGTATTT TCCATCAGG ACACAGAGGC AGGCACAAAT TAACC

SEQ ID NO:361: (Length of Sequence = 298 Nucleotides)

ATTTTTTGT GGGGAGAACA TTTAAGACCA TTTCAATGTC ATGATGAAAG CTAATGGGAG AAGGCTTTT TNCTACAAA  
 ATTINCTT TTTTINCAAC TTTATGAGG TTATAATGA TATTAATAA CTGTACAGAT TTAATGTGTA CAGTCTAATG  
 AGTTGGGACA TATGCTTACA CCCNIGATGC TGTTACCACA GGCAAGGTAA TACACATATC CGTCACCTGC AAGAGTTTCT  
 GIGTTCCCN NIGTTTCTCA TTTTGNTTTT TTCAAAAT TACTTTATAG CTTATAG

SEQ ID NO:362: (Length of Sequence = 437 Nucleotides)

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ATGCTGGAAG TGATTTCTGC AGCTCAGGAT TTTTTTTTAA AGCTACATTG AAAATATAGG TTTATTTTTT GTNCAGGTTT  
 TNCITTTTATA TTTTTTINCT GCACAAAGGA GGAGGATTTT CCACTTACTC ATATCGAGGC CAGATTTTTTA AAGCCAGCTA  
 AGGCAGCATC AGCTGTGCGG GATTTAAAGC CTATAGCTCA GCTGAAAAAA AAGGTGGGGT GCGTTTCAT GTAATGGGAC  
 ACGATGCCCT TCTTGCTGAA CGACTGGAAA GAGCACAAGG AGCACTTTTC CTTCTCCACT GCCCGCCGGA GTTCTCGCT  
 CAGCTGAGGG GAGTCGTCTT TGGGCGGGGA TGGGATGATC ACTTTGTGTG GCTTNTCGCT GATGGTCTG GAGGCTGCCA  
 AGAAGTTGAG GTGTAATACG CATCAATGTC CGTGGCG

SEQ ID NO:363: (Length of Sequence = 449 Nucleotides)

TGATTTGAAG TAAGCTTTCC ATGCTTCACT TAGGGTGGGA AATTTTAAAT ATCAGAGCTT TCTTTGTTAG CAGCATATAG  
 TTATGCAATT TATTTAAATC TGCAGTGCCA ATCTTTTTTT GATGGGTGTG CTTAGACCAC ACATTTAAGA TAATTATTAA  
 TATGTTAGAA CCGAATATAT TTINATGATT AGTTTTTATG TGTCATTTG ACTGAATTAA GAGATGCCCA GACAGGTGGT  
 TAAAACATTA TTNCTGGGTA TGTTGTGAG GATGTTTCCA GAAAAGGCTA GCATTTGANT CAGCAGACTG AGTAAAGAAG  
 ATAAAGATAA TACTTGTCTAT GTGTACAGGC ATCATCCAAT CTGCTCAGGA CCCCAATAGA ACAAAGAGT GGAGGGAGAG  
 TGAATTATGT CTACCCCTT GAGCTTGGGA CAGCCATCTT TTCATGCC

SEQ ID NO:364: (Length of Sequence = 282 Nucleotides)

GACTGTGTAA ATACACTTTA TTTTCCATTT TNCCTGCTG GCGACATGT GAACAGGCAG TGTGCAAAAT GGTGGCGGGC  
 AGTGTAGGGG GCGTGTGGAG AGCCCGTGG GTGNTGCCC CGGTCCCCAG GCTTCGTAAC ACTGAAAAGT GGGCAGCTAG  
 GAAGCGGGGA CCGAGCAGGG GTCCCCACCC AGGAAGCGCC AGGNAGATTN CTTGTAACGC TACTCTACTG GAGGCTCCGG  
 GAGCACCGAG NGGGGCAGTC CCCAGGTCA TGAGGCCCGG GG

SEQ ID NO:365: (Length of Sequence = 349 Nucleotides)

TTCAAGCATT TCTCTGCTT CAGCTCCCA AGTAGCTGGG ATTTACAGCAC CTGCCACCAC GCCCAGCTGA TTTTGTATT  
 TTNAGTCAAG ATGAGATTTT TGCCATGTTG GCCGGCTGG TCTTGAATC CTGACCTCAA ATGATCCGCC TGCTCAGCC  
 TCCTAAAGTG CTGGGATTAT AGGCATGAGC CACACANCT GGNCTTTTTN TTCTGTTTCT AACTGTTCC TTTTATTTC  
 CTATGGAGCA TCTACTGAGC CCCAGCCGAG AGTAGAAACA AACCTGCTGG CTGCTCTNAA GGCACCTATA GTCCAGTTA  
 GGGGNGACG GTTCACTTAA CCACCTAGT

SEQ ID NO:366: (Length of Sequence = 366 Nucleotides)

ATGCAAAGGA ACAATGGTGT TGGCAAAGTC TTCTTTGAAT ATCAGAGACT GAGTCAATAA AAAAAATAGT AGAAAGGTGG  
 CTTTTACTAT TGACAAAAGC CGGGTCAAA AAAAGTAGTT TAAGTCTTAA GNTGAATAT GCATTAAAGT ATGCAGGTAG  
 CAAAGATGTA ATAAATTTCC TTAAAAAAG AAATTAAAGT TTTATTTAGA ATCAATTTTA CCNGTCATTG TAATTGACCC  
 NTCTGAGNAT TACAATAAGC AAGAGGAAAT TAAGGTGTTT TGCAAGAGCT GTATTTATAT TACNGTTTTT TAAAAACCAT  
 TTTCTGAATT ATCGTAATTA AAGCTCTCCC AACTCGTTTA AGTCAG

SEQ ID NO:367: (Length of Sequence = 391 Nucleotides)

GCAAAACAA ACAACAAAC CTTTAAGTAC AGTAGTTCCA AAACACACTG CTAAAGTTAT GAAATAATTG TGGATCATTT  
 CAAGTAAAAA TTATTAAAGG AGCAATAATT AACCACAAGG GGCATATAT ATATATNCNC CTTAGATTCC AGCAGAAAGA  
 CTAGTTTTAA GTAGTAACAT GCACGTTGAA GTATTCTACA TTTTCAGTCA CTTAAACTTT CCTCTCTCAG ATGGCTACAA  
 CTTTTTAATA TTCGAGGINT ATTTTATATC TAAGTAAAG GATTCCAGAA TACTCTGCC CTGCAAAACA GTAGTGTTTT



AGAAGNCTCT NGGAAGTGTT GCTGTTTACC CTTTAGCAA GNGTACAAG AGCTATTAGT TGTAAATAA C

SEQ ID NO:368: (Length of Sequence = 370 Nucleotides)

ATTTCCTTC TGCACCTGGT TCTCTGCTC CCCATTACAA TGGTTTACTT CATTTTCTTC TTCATCCATT GGATTCACAT  
GTTTCTAGG CCAATATTCC AGGNGTGCTT GGAGTAAAAG TCTCTCTAAA TTCAATTTTG GNTCTGACCC ATCAGGGCTG  
CTGAAACCAG CATCTTTTGC AGAAACCAG GCAGCAAAAC AATCACTTTC ATCCAAAGTA ATAGTTAACA TCCCTGTTTT  
TAAGTCTACT GAGAACCAAT TTGGCACATA CACCATTTTA AATCTTINCT TAATTTTATC TTCAAAATCC ACTTTGCCCA  
GATCTTCAAC TTACATGGC TTCAATACAT CCAATATGN CACATTATTA

SEQ ID NO:369: (Length of Sequence = 315 Nucleotides)

GACAGGTATT CTTTGAAGT TTTTGTGTTA CTTATGTTTT NCTCTTTTAC ATCTCTTGT GAATTTCTGT CCCATTTTGA  
AGTCTCTCT TGTCTOGAC CAAGATCCCC TTGATGTTCT GTAGCCAAAG ACTGAGAAA AGAGTTATTC TGAATGATGT  
AGAGGTGAT AAGTCTGGTA AGAACTGTT GGACATACT CAAGCAGCAC TGCAATGCAG TCTTTTGGGC TGCTTCTCTA  
CTTGGGTTG CTGTCCCCG AGTGACTACG GAAGGGTCT GGATGATGGT TTCTTCAGAT CCCACAGTGG ATGCT

SEQ ID NO:370: (Length of Sequence = 442 Nucleotides)

AACACTTTTA CACTGCTGGC CTAATTTGTA GATATCTCA AGAAGATTAT GAGTCATTCT CACTACCGGA ATCTGTCTCT  
CTATTTINTT TACCAATGGG TGCACCATG AATGTGGCC ATCAATAGC AAATAOCTC TGCTGTATT TCTTACTIN  
GTTTTAACTG GAGCCTCAGC TGAAAAGGT TATGGTGCTG CTATTCAGTT TTATGAACCA TACTCTGAGG AGAATCTCAC  
AGAAAAGCAG AGACTTCTTT TGGGTTTAA ATCAGCAGAT GGGAGTCTG ATAGTTCCAA AACATTCAT ACTAACRAAT  
GCATCTGTCT TCTTCTCAC TGGGCTTTT TTTGATGGCA TTCAGGAAGT TTCTGACTTT TNCIGTATCG TTAATTCAT  
CTCTGGGCT CATGTCTTC CAATTGAGGA GGATAATTC CA

SEQ ID NO:371: (Length of Sequence = 441 Nucleotides)

GACAAAGTCA CTCAGGTCT ATTTCACCAT ACCCAAAGT AAAGGCCAA ACTCCACGG GGCCAGTNT TTCTGGNICA  
AAGTCACCAT GTCCCCAAGA GAAGTCTAAA GACTCACTAG TTCAAAGTTG CCTGCTCTCT GTGACAGGAT  
AAAATCTAGC ACACCACCAG GCGAGAGCTA TTTTGGTGTC TCACTCTGTC AACTGAAAGG ACAATCTCAA ACTTCACCAG  
ACCACAGATC TGATACCTCA AGTCCAGAAG TGAGACAGAG TCATTCAGAA TCACCATCTC TGCAGAGCAA ATCTCAACA  
TCACCTAAGG GAGGTCTGTC CAGGTCTTCA TCTCAGTCA CTTAGCTTGG CATCCAGATC TCCANTAAGG NCAAGATAGA  
GGTGAGTTCT CAGCGAGTCC TATGTTGAAA TCTTGGAAIT T

SEQ ID NO:372: (Length of Sequence = 362 Nucleotides)

GAGGTATTGT TGTACTGGG AGGTGAAGG GAACACAAAT TCAGTTATAA GTCCTTTTTG AATACTAAGA GGGGAATAAT  
TAGGGAAGCT AAGAGGGGAA TAATTAGGAG AAGAAAAAA AACTTCAAAC AATTTTCCCT GTAACATGAT TTTACTTGCA  
TTTATAAACT GATTTTTTTT TCTAAGCACT OCTTGATAA TGATTAAAGT TGGGGTTACA TTATTINAGG GTCTCTAAT  
ATTAAAGGTG ACTTAAAAAC CTCACACAG TTAATCCGA ACTGTGAAA TTTCTCATCT TATCATCCCT CTGTACTAT  
CAATTTTCT CACGGTACAG ATTCTTTTAT AATTACTTCA TT

SEQ ID NO:373: (Length of Sequence = 306 Nucleotides)

ATTCTTTGIG CGTGTGTGTG TGIGTGTGTG TGIGTGTGTG TGIGTTTTGC TGTGGAGTTG AGTTTCTTTG TAAATCTGG  
ATATTAGTTT CTGTGTAGAT GAATAGTTTG TGAATATGTT CTCCATTCA ACAGGTGGC TCTTCATTCT GTTGATGTT  
TCTGTGATC TGCAAAAAC TTNACTTAA ATATAGTTCT ATTGTTTTAA TTTCTTTTTT CTTACCATG CTCTGAGAT

CTTAGCCATA AAATGTTTGC CTAGAACAAT GCCCTGGAGT GTTCCCTG AGTTTTCTTC TGGTAG

SEQ ID NO:374: (Length of Sequence = 278 Nucleotides)

GGGTTTGGT TGAGGTTTCT ACCTCATTAT CCAAGATATT TNCITTCAG CCAGCAGAAA GAAAAAGGAG AAGAGCTGCC  
ACCCTTTGTA TCAGGATGA TCCTTNTTG AAATCCITGA TTTAATTATA TCTGCATGAC CCTTINCCCA ACTAAGGTTA  
TATCCACAGT TACCGGGGT TAGCACTGGG ACATCCCTTA TTTTANGAAC ATGTCTCAGA AAGTTGCACA AAAAATTCT  
ACTACATCCC ATTGGCCAAT ACTTCTTACA TGATGACA

SEQ ID NO:375: (Length of Sequence = 321 Nucleotides)

GGTGACAGTA TTTTGTGG TTCTGTAGC TCCAGCCCCT CAGAAGGGAC GCCTACAGTT GGCAGCTATG GCTGTACCCC  
TCAGTCATTG CCCAAGTTC AGCATCCTTC CCATGAAC TGCTCAAGGAAA ATGGCTTCAC ACAACACGTC TACCATAAGT  
ATCGTAGGCG CTGCCCTAAT GGTAAAGAGT GTGGGGGGCA GGAGATGAGC CTCGTGGGCC GTTATTTTGA CCCAGAGTAT  
AAGAGTTGGG GGATACGGG ATAGGTGACT CTTTCTCTG ACTTCAGAGC AAAAAAAGA CATGACATTA TAGCAAGAAA  
G

SEQ ID NO:376: (Length of Sequence = 337 Nucleotides)

GGAAAATTTA CAGCATGACT ACATATGTTA GGAAAAAAT ATCTAAAATC AATTAACTAA GCTTCCATCT TAGGAAACTA  
AAAAAAGAAG AGCAAATTAA ATCCAAAGTA AGAAGAAGAA AATAAATAAT AAAAATTAGA GCAGAGAGAA ATGAAATTAT  
GAACAGGAAA TCAATTTTAA AAATAAATGA AACCAAAAGC TGGTCTTTG AATCAATTAA TAAATTTGAT AAGCCTCTAG  
CCAGACTAAG AAAAAAGAGG TAGGGCACAA ATTACTAATA TCATAAGTCA AAGAGGGGAC ACCCCTACAG ATCCCATGGA  
TATTAAGG ATAATAA

SEQ ID NO:377: (Length of Sequence = 455 Nucleotides)

GTTACAATTG AGAAAACATA TTTAATAAAT CATGTCAAT TTTNATAATG TTTCAAGCCC ATTCTTTGTT GATAGCCTCC  
ACATTATAT GGTAAAGTCA TTGTGCTGT GTTCTTACC TATGACATTA TTTNATATC CCTTCATTG TGGATCTTAA  
GATGTGCGAG AAGGTTCAIT CTGTACCCC AATACAGATT CACTTCTTT AGCTGCTTT NCTAGCACA ATATGCTTTA  
AAAAAAATG CGCAACAAC AAGCAGTGAC AGCGCCCAAT TCCTCGAATG TCAGATTAA TAACTGTAGC ATGCTAAAGA  
AAGGTGTGTG TAAATAGCTG GAGATGGTAT ATGGTCCAGA GTCCAGCATA AAATTATTC CTTTCTGAGG CATCCCTCC  
ATTCCCTAA CCGGATACA TGCATTAGGA ATGTAGCAA ACCCTGCGG GAAC

SEQ ID NO:378: (Length of Sequence = 349 Nucleotides)

GATGGTCAG GGTGTTTATT ACTGGACATG CTCTATGCTT ACTTGCTTGA AAACGCTCCA TTAGAAAATN AACTCTGAAA  
ACTATATGCC CAATGCTAAT AGTGGGTATT TATTGGTAAC ACTCTTTATC AGGTGCTATG ATGTGTGATG GCTTTATTIN  
CTNCTCATA TTINCTATAA TTINCTAAT GAACATGTAT GTATAATCAG ACAAAGGCA CAAGAAATAT CCATAAGTTT  
TNCITGTCAT TCATTATCC CATAAATACT TGCTGAGCAC CTGCTGTAAG CCAGGCTCCG AGCCGGCTGC TGGGTGGAGT  
GCCGCACCC AGGGAACGGT CAGCCCTCG

SEQ ID NO:379: (Length of Sequence = 421 Nucleotides)

ATTTTGAATC ATATTTTACT TATAGGTTTG CTGTATATAC TGATTAAACT TCIGAACCTA AAGATTCTCT ATAATTAAAC  
TAGCACAAAT ATAATCTGTC CCTTACCCAC ATTGTAAGAA TGTCTGGTGG GGGAAATCCA ATATTGACCT TCACATTCCA  
CATGGAAAT CTTTGTCCCC AGAGTGCAAT TAGGGTGATT AAAAATAAGC AGCTTTTGTG AGTCTCAGT TTGTCCCCA  
ATTAAGCAGC ATCAGCAAT GGAAATTTGT CAGACATGCA AATTAATCAG TCCACCTCA TCTCTAGCC CAGATCTATG

GATCAAAAAT TTTGGGGGTG ACCCTGGGCA ATATGGGCIT TAATAAGNCC CTAGGATGGG TTCGTATGCA TGCTCCAAAT  
TTGNGGATCA TTGNVNCINT G

SEQ ID NO:380: (Length of Sequence = 311 Nucleotides)

ATTTNAGAT GGAGTCTCAC TCTGTGCCCC AGGCTGGAGT GCAGTGCCAT GATCTGGGCT CACTGCAACC TCCACCTCCC  
AGGTTCAAGC AATCCTTCTG CCTCAGCTTC CCCAGTAGCT GGGATTACAG GCACCTGGCT AATTTTTTTT TTTTTTTTTT  
TTTIGAGATG AAGTCTTGCT CAGTCGCCAG GNTGGAGTGC AGTGGTGIGA TCTGACTCA CTGCAGCCTC TGCCCTTCOGT  
GTTCACGCGA TCCTCCTGCC TCAGCCTCCT GAGTAGCTGG GACTACAGGC ATGCACTACC ACACITAGCT A

SEQ ID NO:381: (Length of Sequence = 442 Nucleotides)

AATCTGTGAA CATATATTTT NATTTATCTT AAATACCTAA GAGTGAAATT NTGGTTCAT ATGIGGGTAT ATATTCAACT  
TGTAAGAAT CTACCAAAAT GATTTTCCAA GTATATGAT AATGTTATGG TCATCAGANC TACATGATAG TTAGAGTTGG  
TTACATACT CACTGCAATG GATTGACTTT CCTGTGATTC AGCTATCCCA CTCTTAGGCG TATACCCAG AGAAACTCAT  
AATGTCCITG TGTGAGCTT GTATGCTAAT GATTTTATGA GTATTTTTTG TAATAGCCAN AAGGTGGAAA CANTGAAAAC  
TTTACGGGAA ATGATTAAAT AATTAACAAA ATATTATATA TCTATATATG ATCCATTAA CAATGAAANG GANTGAAGTG  
GTATACAGA AACACCACAG GTTAACCNIT GAAAGTATAT TA

SEQ ID NO:382: (Length of Sequence = 337 Nucleotides)

AACAGACTTT GGAGCCANTC CCATGTGAGT TTGAGTCTCA GAGTGACTCT GGGCAAGTNA CTAGGCCTTT CTGAGACTCA  
CTTCCCTCCT TTATAAATCA GGAAGAATAA TCCATGTCTC ATTGAGTTGT TAATNAGACA TAAATGAGAT AGTGTATCTA  
AAATGTGATT TGTAAAGTCT AATACGNAAT AGATCCCTAT TTGAGTGTTC CTNATACTCA GGATGGTTCT TGGGATATAT  
TTNCCCATGG AACAAAAAGC AGACTACTCA TGACCACTCG GATTTTATGT TCAGCCACAT TAGGGCTCCT ATGGCCTGAC  
CTGAAGACCT ACCATTT

SEQ ID NO:383: (Length of Sequence = 421 Nucleotides)

GTGAAACTGA AGAAGACCAC GACAAAGAT CGCTCAGCCC CTGCTTTTC TTAGGTTTAC AAGAAATGCG CCGGTGGGGA  
ATGAACINTT TCATTAAATA AACCTAATTT GTCTTGATCC ATCCACTCT ATAATAAAAC AAAAGATTTT NTAGGCAACT  
CGGAATATAG CTCCTTTGAA AGTACTCGAC ACCTTTAGAT AAGAATTAAA ACCAACCTAT GTAACGTACA TAATCTTGAT  
CINTTAATTT GTAAATATIG ACANTTINCT TTCGCACAT TTTAATCTTA GTTCCCTTT TGATTTINCT GAAGGTGCCA  
AATCCATTT AACINCTTTA CAAGTCTTTG TAAATTTTA AATGCATAAA GGGGGGTGG GGCAGGGGG ACCNCGGANG  
TAGTTTAAAT TIOGGAAGG G

SEQ ID NO:384: (Length of Sequence = 420 Nucleotides)

GGACTCCGTT CCCAAGAATA AGTTTTGCTT GGGCGGAAAG TATGTGGTTC ATCCGAAAAA AAAGAAATCA ATGATTTGTG  
GCAGTCTTC ATGTGCTTTT GGCATTINC ATATCTTCTT TGGAGAAATA TCAATTAAGA TCCATTGCGG TATATACATA  
TATTAAAATT ATGGGTATG TATTATGGCT CATACCTGTA ATCCAATGC TTTTGGATGT TGAGGCGGGA GNTCACTG  
AGGTTAGGAG TIOGAGACCA GCTGACCAA CGTGTGAAC CCTGTCTCTA CTAAAAATAC AAAAGTTAGC CAGGCATGGT  
GGCATGCACC TGTAGTCCCA GCTACCCAGG AGGCTGAGAC AGGAGGAAT GCTTGAACCC ANGAGGCAGA GNTTCCAGT  
GAGCTNAGGA TTGTGCCACT

SEQ ID NO:385: (Length of Sequence = 404 Nucleotides)

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GTGACAAATG TTAAGAAATT GTGTGTCAAG CAAAATACIT TAGAGGCCAA TGGGCCACAT GTTTTTAATA TCAAGAGATT  
 ACACACAAAA TTINTTTTCT AGCTTCTITT GAAAAATCAG AATTGGGAAG ATGTATTCAT GAGTGACTGC TGCCCCCTTT  
 GGTGGGACT CGTTCCTTCA GGTTCATTAC ATGGTCATCA ATAACCAITT CCTTGGTCCC TGCTTTTGTC TTGTCTGGNC  
 TCTAAGCATT TGAATTTTTA GTATTATAAG AAAACTTAAT ACTTINCTAT CAGTCACCAC ATACATGTGT TTCTATCTGT  
 ACTACGCTT ATTAAGACN TTTTATCAAT AGCNCCTT TTGGAGGGG GGATTTCAAC TGGTGCCING ACTAGCAAGG  
 AATT

SEQ ID NO:386: (Length of Sequence = 267 Nucleotides)

GTCTTGTTGA CATTTACGTG GTATCTTTAG AGCAAACACA GAGTGGTTGC ATAAGCTGCA GTGTTTTAGT ATCGGTGGGA  
 CTGTGGCATG GCGTAGAGGA GTNACAGTCG CAAACTGATG GCCCAGCTCT GACCTCCAG GCAAGTGGAC TCCGAGGAGT  
 ACCAGCAGAT CTCCACAT GCGTCGGGA GGGCTCTGGG GAGAGTCAGT GGCAGGAGA GGGTCAGCTG TGCAGGCTCC  
 AGGGCCAGC CCGTGCTTT CCCCCT

SEQ ID NO:387: (Length of Sequence = 384 Nucleotides)

ATTTTAAATG ACATTTTATT TAGGCCAGGG GACCAGGTAA CATTTATTTT AGGAGGAGAG CAAAAGGTGT TATATTACTG  
 CTCTAATTA CCTAGAAGGA AAGCAATTGC TACACTGCCA TTATGATTGG CTGCAGCAGT TCAACCTGGC TCTCGGAATC  
 TGCCATTAGC TTGACAGCAT ACAGAGCACC ATATCAGGGT TACTATGGGA AGACTCTATT GTGGCATCAG AAACACAAAA  
 AACACTGGAT ACAGTTAGTT TCTGTTGACA GTTTCAGAAG AAAATCCAC AGATTGGACA GGCTGCCTGC TGAAAGGGTT  
 GTCACTACAC ACAGCATGCC CTGAACCTG GGAATGAAGT TACCCCTATC TGTGGTGATC AGGA

SEQ ID NO:388: (Length of Sequence = 345 Nucleotides)

CTAAGATCAA ATGCAGGCAA AAGTGGTGA TTTTACCACC TGTTGTAG TCTGGGTTTA TAACTTTACC GTAAATCACC  
 TAGAACACAG GCTAGCCGAA TCGGGGTGTC TGGTATGGCA ATATCCGAG AGCTAACCTG GGGCTGGGGC AATGTTCTGT  
 GGCTGCTGCA CTGCTCTA ACAGGCCAGT TTAAGAGTTC CAGCTCTCAG GGCCACATTC TCCAGGACAC AGCAGGGAGC  
 TCACAGTAGC TCAAGACCCG GCCCAGCTC CATCCCCAGC CTGGAGCTG TCAGTGCTCC CAAAGGCTGA AAGAATTGG  
 TCTTGCTGA GTGACAGCC CCTT

SEQ ID NO:389: (Length of Sequence = 156 Nucleotides)

TAACTGCCC CAGCAGTGCA TGCAGGAAGA CTTCCTGGTG CATGAGGTGA CCAATCTGCC GGTGACAGAA GNACTGATTG  
 AGCGGGAGAA TGCAGCCAG CTCAAGAAGT GCGGGGAAC GCGGGGGNG CTGCAGTATC GGCCCTCAG GCGACT

SEQ ID NO:390: (Length of Sequence = 364 Nucleotides)

GAGTCTGCT CTGTACCCA GGCTGGAGTG CAATGGCATG ATCTCGGCTC ACTGCAACCT CCGCTCCCG GGTTCAGTG  
 ATTCTCTGC CTCAGCTCC CGAGTAGCTG AGATTACAGG CAGTGCCAC CAGCCTGGC TAATTTTGT TTTTCAGTAG  
 AGATGAGGTT TTGCCATGTT GGCCAGGCTG GGCTCAACT CTGACCTCA GATGACCCG CTGCTCAGC CTCCCAAGT  
 TCTGGATT AAGGCATGAG CCACTGCACC CAGCCCAACA CTGGGATTCT TTTATCCGCT GGCTGGCTCT TCCGAGTTG  
 AATTGTGTA CTCTTCCC TATCTGAGG CAGTTTTT TC

SEQ ID NO:391: (Length of Sequence = 325 Nucleotides)

GAGTGTCCAG ATGATGGCAG TGATGGCCA TCTGGAGCG CTGCTGTAAG GACTGCTGCT GCAGCAGGGG AGGCACAGCC  
 AGGCCTGCGC ACTAGGCAGA GCTGGTGTGG GAGCCAGGAG CAGATGAGAG CCGGCTTC TACCAAGTTG GAGTGCAGA  
 AGGCGTACT CCGGGTGTCT GATGCCAGT TCGTCCAC ACCCTGGTAT CCTGGGCTN TCAGGGGCC AGGAGCC

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CCACCCCTGC AGGNTTCAAA GGGCTGCTT CCACTCCTT GGCCTTTCCC TCCTCTGGG AACCATCTG GGGCAGAGCA  
AAGCT

SEQ ID NO:392: (Length of Sequence = 371 Nucleotides)

ACATCCACAC AAGTACAAGA ATACAGAAGC TTCTCTAGTC AGGATGCACT AAGCACTAA TGAGTAAACA AACTTCAGCA  
TATCTCATT GTTCTCATGG TATTAAATTG AAGATACTTA CCTTCGAAC AAATCTGGTT TTAGAAGAGC TGCTTGTGT  
TCAGCTCCAA CTGGTTGGGA TACAGGCTGT AAACAGTACA GACATAAAAC TTGCTATGAT AACAGTAAAA TTCAAGCTAA  
ATATACAATT TGTTACTATT CAGAAAACAC GATAGTTTGT GTTACCTTGC AAACCTGGTA GGAATATCTA TGTTATTGAA  
TGTCGTATC AATCCTATTA TTAACATTAT TACCAAAGGT AAATAAATT T

SEQ ID NO:393: (Length of Sequence = 404 Nucleotides)

CCTTTTAGTA GCTTCTCTGA GGTAAGACCA CTCTTTTGT ACCATCTAGC GCATCTCTC TTTACATCAA CCAATTATTT  
CAAGTGTAGT GTGCTTCAGA GTCTGAAAGA GCTATGTCAG AATGGCTGT TGTTGCTTTC TATGGACATT CACATGAAAC  
CTGTACAAA CAGTCTCTA GAGACAACTT TGGGTGGATC CATGAACCT GTGTCTAAAC TGATCCACTA TGTAGGGTGG  
CTATCCACTA CTGCAATGCG CTGGAGAGC AACATACTT TCTGTCTGCA CTTTATTTT GTTCTCTATG AGAAGGTGTG  
TGACATATAT ATAAATNATA ACCTTCATT AGTGGGTATT GTTCTCTCT GGGATCCTT CTATCTGCA CTCTCAGCC  
TGGG

SEQ ID NO:394: (Length of Sequence = 416 Nucleotides)

GCCACACT GGAGGGGAG AGCTAGAGAG TGAGACAGCA GGGGAGCTGA GGGTGAATGG CTGCTGTAG AAGCCCTGGA  
GACAGCTGA GGTGAGAGCC CAGCCCACT CTTGGCTGTG TGATCTTGTAG CAGGCTGT AACTTCACTA GGACTTGGTT  
TOGTTTCTC ATAGAGAATA GGTACAGTGT GAATTAAATA TATATAGCTT GAATAAGTG CCCAGCTGT GGGTAGCTGC  
TGCCATCATC ATCACCATCA CCATCATCAC CATCACCATC ATCATCATCA TCATCATCAT CATCATCATC ATCATCATCA  
TCTCAGGCAC AGGGGCTTTA AGGACAACAT GCCAGTTTA AGGANGACA CAACTCTCTT CATTATAGC GNCCTCCAT  
CAGTGAGTAG ACGCTT

SEQ ID NO:395: (Length of Sequence = 315 Nucleotides)

AGAGATCAA TGCTTAAAC ATTATGGAAT AGGAGTGTAT GACTGACTAA CATCCAGTAA TCATTAGGGA AAACAACAT  
GAGTGAGGNC AACTGAAATA ATTATGATAC AATTAAAGGT GGTAGGTAC ATTGTATAG TTTTAAAA TATGCATTAT  
TCACATGAT CAGAAATATA AAANGANCIA GACAGATACT GGTAGAGAGA CAATTAAATT AAATTTGTA CATATTGCTT  
GGNGCAAGCA TTCAAGTTGA GTGCTTAATG TGTATCGGTG ACTGCACTGT GCAAATAAAT TTGGGGTATG TAAGA

SEQ ID NO:396: (Length of Sequence = 409 Nucleotides)

CTCCAGTTCT CAGTTAGGG TGCTTTCTT CCGGCAGAG TTTTTCGAGC TCATGAAGGT GGAATGCTG GAAAGTACTC  
TAGAAAAGTC ACTCAAGCA AAGTTTCTT CAAATCTCAA GGTCTCATT CTCTTAGACT TCACGGGGG CTCACGAGGC  
CGGAAGAACT CCGCACAAAT GCTGCTCCA CTCTGCGGA GGTCCGAGA GCAGGTGGA GTCTCCTCT TTCACGCGC  
GCACCTCGT GGGCTGCTT GGCTCTCAT CCTGAGCGC TTCAAGAGA CCATCGGCT CCAGCACATT AAGGTGTACC  
TCTTGACAA CAGCGTATC TTGAGCGGT CAAACCTGAG TGACTCTAC TTNACCAAC CGTCAGACG NTACGTGTTC  
CTGCAAGGA

SEQ ID NO:397: (Length of Sequence = 414 Nucleotides)

ACAAGCTGTG TGACCATAGG CAAGTTTGAC CTTTCTGAGC TGCCATTTTC TCATGGTAAA AGAGAGATAC TAGAGGAACC  
TGCCTCACAG GATGTGTCATG GAGAATAGAG GAGATGATAC AAGTGAAGCA CTAGGCAGCA CCATACTTGG AACTAAGGGA  
AAGCCCGCAG TCAATGTTCA GTATGTGTAC ACTTGCCAGA TTGTGAAAGA GGCAGGCAA CCCTTGAGTT GAGCTCAACG  
CTGGAGCCAA GATCAATGAC AGAAGGATTT TGTTTTGAAA CAGCAACTAA TGACCAGAGA GAGGAAATGG GTCATGAAGC  
TCCATGGTGC CTTTCATGAA AATGAAATGT AAGGGCGTGA TTCAGGAAAA AGGGACCACG ATCAATACCA GCAGACTCTT  
CCCTATGCAC TGGG

SEQ ID NO:398: (Length of Sequence = 400 Nucleotides)

CATCAAGCTG GGAATGCCCT AAAGTGGGGG CGTGAGGAAG AGAAGGGGTG ATACCTAGAG GCTGGGGTAT CTCTGTCCCA  
AGGAGACAAA CTATAACAAG ACCCAGCAAC TGAAGGGTTA ACACCTAGCA CAGACGTATA CCTCCAGGNT CCTAGCTGCA  
TTTCTAATTC TGCTTCATCT ATGCTTGAGC ACTACTTGTT GTTAAATATA CTTAATATCA CTCTTAGCTA ATTTCTCTA  
TGTAGATTTT TATTTATTTT TGAGGGCAAC CCAACTTCCA GGCTCTTGA AGGAAATAGA CTGCAGCCCC TAAGTGTGAT  
CAATACTTAA TTATAACAAT AATCACTAAT AATAACTTGT GCTGCTTCAT TGTAATAAA ATGTACACTT TTACATTTT

SEQ ID NO:399: (Length of Sequence = 324 Nucleotides)

AAATATTTAC AATTTTACAC CTTCAGGAAG GCTCCAAAT ATAAACAATG TACCTCTCCC TAGAGAAAAA AAAATTATTC  
TTCTCTTCAA AAACAGGAAT ACATTCATTT TTTCTCAGT TGTAATCAA GTAAATATAC AAATAACAT CTGAAACATT  
TTCTTTTATA ATATATTTAT ATAAATATA TTTNTAACAG CTTTACAAAT AAAGGCAACG GTCCCTTTCT AATTTTCATG  
CCTCTCAACA GAAGGGTACA TGATGCTCCC TGAATCCAG GGTATTTTT TNCTCTCTAT GGTACTTTGT ATTTCACTTT  
ACTT

SEQ ID NO:400: (Length of Sequence = 388 Nucleotides)

ATTAAATCTG AGTTTTGTIT GAGCATCTTT CAACATGTAC CATATTTATG ACAATTCCTT TCCATAGGAT CTATCTGINC  
TGCAACAAGT ATTGATCTTA CAGTAAATTT TTTCACAAT TCATTAGATT CTATGTCTCT TTTTCTGGTA GGAATTTTTG  
TGCAGGTAGC TATCTCTTGC CCTAGATTAT TCTCCTTGTT TAGCTGCTGA TTCTTAAACT GGCTCTTAGA TTCCAGATT  
TCCTCCGGTA CAGACTTTCT CTTTGCAAGT NCTTCATCT CTAATCTTTG AGATTAATCT TCTTTTGAAA TGCTCTGCTG  
CTCTACTCTT GTATGTCTTG GNCCACGTT CAAGCTTCCC ATCTAGCAA ACCAGGGTTT CTAATATT

SEQ ID NO:401: (Length of Sequence = 339 Nucleotides)

GTTTTATGCT CAAAAACAAG AATTCAGAAG CAAAGGTGGA GAGACTGTGG GTTGGGGAGA TGGCAGGAAG GGGCAAGGC  
CTTGTCOCAG CTCTCCCTTT TGTCCTTCTT CTGACCCTCC TGGCCGAGT CAGGCCTAGG GCCAGGGCAT CTGGGAGGGG  
GGCACTTCG TGGCCAAGGG AACAGTAGAG CTATCGGGGG CAGTCCTTGA GGGGTGCCCT GGCAGGAGG GGCTGCAAGA  
TTTNCAGGGA GGCAGAGTTC CCTCCAGA ATCCAAAAGC CGGTAGGGCG GGGGGCAAGG CCCCTCGTTT GGCAACTNAG  
AAGAGCGGCG TTTTGGGCG

SEQ ID NO:402: (Length of Sequence = 400 Nucleotides)

TGTCCAGTGT ATGAGGAGCT CCCAGCGAGA AATGAAAGT TCTATGTTTA TGAAATAAA AAGGAAGCAT TGCAAGCTGT  
CAAGATGATC AAAGGGTCCC GATTTAAAGC TTTTCTTACC AGAGAAGACG CTGAGAAATT TGCTAGAGGA ATTGTGTATT  
ATTTCCCTTC TCCAAGCAA ACGTCTTAC CACTGTCTCC TATGAAACA GCTCCACTCT TTAGCAATGA CAGGTTGAAA  
GATGTTTGT GCTTGTCGGA ATCAGAAACA GTCAACAAAG AGCGAGCGAA CAGTTACAA AATCCCGCA CGCAGGACCT  
CACCGCCAAG CTTTCGGAAA AGCTGTGAG GAAAGGGAGG AGGAGGACAN CTTTCTGAC CTTATCTGGG AGCAACCCCC

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SEQ ID NO:403: (Length of Sequence = 416 Nucleotides)

AGTTGACTGC TCTGATATGG AGAGACCTGT TAGTCTTGTA TATAGTGCCC AGCCGGAAAA AGCATCTCTT GAAGGTTAGG  
GCATTTTG TG AGGAGAGCTC TAGGGCTATA TCAGTCTGGA GGTATGATCT CTGATAAAGA TCATAATTCT CATCTCAGTA  
ATCTTCTTTA GAACAAAACA TTCTTCATTG TAAGCTTCTC ATTAAC TGAA GGCCACCTGA TCTGAGATTT TGGCTCTTAG  
AATACTCTTT NCTGTGTCTC AATCCTCATA TGGCTTACCT CTGAAATATA GAATATATTT CCTGTGTAG CCGGTAGAG  
TTGGGTTTTG TTTGTTTTTT CAAACAGTAA CTTTATTTG ATGTGAAAAC TTCCAGATTT CTGAGATGCC GCCTTACCAG  
TCTTAAGGTT GATTTT

SEQ ID NO:404: (Length of Sequence = 368 Nucleotides)

CCTCINACTC ATTGTGATGA GTAGGGCGGA GGGCTTCACT GCCTCANITT CCCCAACTTT GGACCTTAAA TCCTCTCCTG  
ATGCCTCTCA GCCCAGCCAG GAAGGAGAGC TAAGACCAAG AGGGATTAA CAGATGCAGG ACACACAGCC TTGTCTCAG  
ACCCCCAAG TCTGAGAGAA GCAAAACACT CACCTTGAGA GCCCTCGGAC TTGGAGGTGA GGTGCAGAAC CCAGGCTGGG  
TGTTGTCTGA GGGGTGGTGG GGGTGGGTGG TGCTGGGTGG CTGGCCTGGG AATACTTTTC TTAAGCTAAG GCTGGGGCTT  
AGGGGAGGGC CAGAGGAAGG GTAAATAGTT TGCCTGGGGG GGTGCTGG

SEQ ID NO:405: (Length of Sequence = 395 Nucleotides)

GACAGGTCTT CACTCTTACC ACAAGCTCA AGTCAGCTTG GCCTCTCAAG TGGAGAGATA ATCGTTCTAT AGCAAGAAGT  
ACAAAGATT TCTGCAGACA AAACCAGCTA GCCAAGGTTT CACAACATGT GTACAGTAT AAGTCTGNTG GATCAGAAGA  
AATATGTACC CGGAATCAG ATGTAGCCAG CCCACATACT AACAAACATC AAAGCAAGCC TAGTCAGATT GAGTCCCAIT  
TGAACAATCT TTATAAAGGT TTCTTCATGT TATTTACAAT TCAAAGTAAA TTTACTTTAT AAGCAGCTAG GGGAAATCTT  
TATTTAGTAA TGTCCTAACA TAAAGTTTC ACATAACTGG CTTCTGTCCA AACCATGGAT ACTTGAGCTT TGTGG

SEQ ID NO:406: (Length of Sequence = 358 Nucleotides)

GATACCTTAA TCTAAATTTT ATCTTAATTT TTATTTTTAT TTCAITGTCT AAATTTTTAT CTAAAATTTT TNCITAGCTCT  
TTATTACACC AAGACAGCTT CACATTTTTA TTTATATAIT GTACATCTCA TGTAAAGNAT TACCGTATAT AAGCTAGTGT  
CATAACTTAA GTAGCCACAT TCATTTCAGTA TGTTTTATGT TTTCTCTCTG ACTGGATCTC TGATACATTC TTTCTGTTC  
TAGCTGCTTT TATGCAAAAG GGCATTATAT GTTTGTCAAT CAACCAGGCT TCTGTGACTG TTTAGAAGGA ATTATGTAAA  
TATATAATCC NGTGGCCTGT TTCACTTTGG CCAITGTT

SEQ ID NO:407: (Length of Sequence = 294 Nucleotides)

CTGTGTATAT TTAGTATCTT TNATTAAAGAA GACTGGTGA TATTTGCCIT CAGCTAATTT ATAGAAAGGA TGATCATCAA  
TGTCTCTAGT TTTCTTCTAA GTGGCTTGTC TGTGCAGGTA CATATAAAAA TNCIACTATA CAAATAGCTG GACAGTTGAG  
TCTCAACTAT GAAAATCTTT TCTGGGATCA AGATCTAAGA AGTTGGTGIG TGTATGAGTG CAACCCATCA TTCTATCCCC  
TAAAAATCTG GGGTTTCTCA GCCCAAACAT TNCIACTAGT AAAGTCAAGT TTCA

SEQ ID NO:408: (Length of Sequence = 367 Nucleotides)

GGCAAGGAAA GAGAGCTTTA AATTGAAAGG TTAATTTCTT AAGAGGAACC TGGGCTGAAT GACTGCAGTG TTATACCTTC  
CAATCTTTCG AGGTGGGCAT GGAACACTGC TTGTATCACT CTGTGCACGG TATAAATCCA TATATCCACA AAAACACACA  
TCCATCCATC AACATATACA TGGTTTGGGA TGAGCAGGTC AATAGTTTTG AGAGGGAGTT TGINCCTTTT TTTTCTCAT  
TATACTCTTA AATTGTGTG AGTTATCAAA CAAACAAACA GANAATTTGT TTGGAAAAAC CTTCATACG CCTTTTCTTA  
TCAAGTGCTT TAAAATATAG NCTAAATACA CACAGGCTTG AGGCAGA

SEQ ID NO:409: (Length of Sequence = 233 Nucleotides)

AAGAGACAGG GNCATCTCT GTCAACCTGG CTGGACTGCA ATGGTGTGAT CACAACCTAC TGCAGCCTTG AACTCCTGGA  
CTCAAGCANT COTNCCACCC CAGCCTCCTG AGCAGTTAGG ACTACAGATG GGTGCCACCA TGCCAGCTA ATTTCTAAAT  
TTTTTTTAGA GACAGGGTCT TGCTATATTA CCCAGGCTGG TCTCAAATC COTGGGCTCA AGTGATCCTC CTT

SEQ ID NO:410: (Length of Sequence = 295 Nucleotides)

GACAGGGGGT GGGGAATCT ACTCCATGGT ATCTTCAGAG CTAGGATAAT GCTCCTTATG CAATCCCACT GCATATGACC  
ATGGCAGTAG AACAGTTCA ATTACTACAC TGGATGCGTT AAGTGTGCTT TCCTAGCAGA AAGCACCAGG GTGGAGTCAA  
CAGTTCACAT GCTAATACIT GGAAGTATTT CTAGAAGGGG GTGCTCAATA GAGGGCAGAC ATGATGCAAG NNCTTCATAC  
TAGAAAGGTG TCCTGTGTGT GCATGCACAG CTGGATGGGG GCACACAGGA GCAAG

SEQ ID NO:411: (Length of Sequence = 304 Nucleotides)

AATAAAAAGA CCATTAACCT AAAGTGGTGT TAAATGCTTT GTAAAGCTGA GATCTAAATG GGGACAAGGC AGGTGGAGGG  
GAGGCCAGTG TACATGTAAA TGCCACAGC CCAGCATGG GTTTCCTCC CAAGNCCCA GCACCAACCT CTGAGCCCAA  
GACCTTGCCT GAAAACAAGC AGATACCGAT TGNITCATCC TATTTATGGA CATGTAGGTC TAGTTCATT TTCCTNGGG  
GGAGGGGGGA AGGTGAATTA TGGTAACTTT TAATGATCTA TTCAGGCAGT AGAGCTCTTA AGGG

SEQ ID NO:412: (Length of Sequence = 250 Nucleotides)

CAGGTGCGCA CTATCACGCC CGGATAATTT TTTTGTGTTT TAGTAGAGAC GGGGTTTCAA CATGCTGCTC AGGCTGGTCT  
CAACTACCGA COTCGTGATC CGTCCACCGC GGCTCCCAA AGTGCTGGGA TCACAGGCGT GAGCACCNT OCTGNCACA  
GGTNGAGACC CTTTCTATAT AAGAAAGAGA AAAATGTCTC TNANTCACA GAGAATGCTA ACAACGGGG AAAGCACAGA  
CACAAACCTG

SEQ ID NO:413: (Length of Sequence = 337 Nucleotides)

GTACTGGGAC AAGGAAGGC AATCACAAC AACTGCCCTC AGGAAGAACT CAGTCCCTGA CTGTAGTGTG TCTTCGGGG  
AACCAATGCC ACCNCCCTCC ATCCCCAGA CGGGCGAGGG GCTGCACCTT TAAAGCAGGC CATTCGGGCT TCCGGGCTCC  
AGGGCCAGCC CACCCCGTTC CCGCTGGTGG ATCTTCTGGT GCTGCAGGAG GTGCTGCTTC TGGACAAAGC TCTTNCACA  
CTCAGTGCAG CTGTAGGGCC GNTCACCCTG NIGGATGCGC TGGTNCAGNA CCAAGTCAGA TGGGTGACTG AAGCTCTTGC  
CACAAGTAAC CACAGAT

SEQ ID NO:414: (Length of Sequence = 304 Nucleotides)

GGTTTAAGAA CTGCGTTTGT GNGCCCAATC TTTGGTGAAA AATATTTTGT GGTATCTTTT GAAAAAATC CTTTCAAGG  
CAGACAGCAT TTTAATGCTT TGTCTGTTTT TCCCTGTTTG TCAGCTCTGN CACCAGCCTG AAAGATTTAA AAATNCAAT  
TAATGGAGGN TTAATTTGTC TMTACTCAGG TCACATTTCT GGGTTTTAAT GAAGNGACAG ATGCTGCTCA TATACAGGAT  
TTAGCTGCAG TTTCTTTGGA ACTTCCAGAT ATTCTGAATT CACTCCACTT CTGAGTCTA AATG

SEQ ID NO:415: (Length of Sequence = 315 Nucleotides)

CGTTGTGGAG TGGGTGTCTT TGGATAGAAG GAGTGAGGAA CTGGGGGAGG AAGGCCTGGG GGATCCCTG GCGGGGCTAC  
TTCCTGGGCC CGGNATGGAC ACCTGGNAGC TGCTGCGNIT GTTGGGGTCC TGGCAGGGGT GTGGTGTGGC CCTCACCCT  
CTGNTCACCT GCTCCTTCTT NACAGTGCTT GGAGAAGTTC CCTGTNATCC AGCACCTTA AGTTCGGNA GCTTCTGCG  
CATCCATCCT GTCACGTGG GCTAGGAGGG GNCAAGCCGA AGAGCCACCC ANGNACANT TCCTGTGCTT GCCTT



SEQ ID NO:416: (Length of Sequence = 343 Nucleotides)

GIATTTCAAG TGTTTTATTT GCTTTCGTG GTGTCAAATT TGGGGTCTCC TAGAGCCCAG CCCCAGGCAG AATCCGGCAT  
ATCCTTCTCC GCCTGGGGG CCGGGACAC AGGAGTTTCA GAAAAGGCAC TGGCAAAAGT NCTAGGGCGG GGGTCAGGGA  
GAAGCCACAC TGAGCCTGGA GGGACCGGGC CCTCCTTCGG CGGCAGAAAA CACAGTCACC TTTNGCAGGG AAGGGTTTTT  
NCCTAGAAAG AAATTTAAGA CAAGATAAAA ACCTGAGATG TTAGAGGAGC CCCCAGAACC AAGCCGGTGC TNCCTGGGC  
AANCAGAGAG TGAACTCGGC TTT

SEQ ID NO:417: (Length of Sequence = 202 Nucleotides)

TATTTCTCTG TGAAAGGGG GAAAATAAAA GGAATAAAT AAAAAAGGCA CAGTTGACAC ACAAAAAA ACCAATGATG  
GGGAGGACGG GAGGTGGAGA AGTAAATGGG GGAGGGGNTC CCATTACAGC AGCAGGATCC AGTACCCCGG GATGCTCACA  
TCTNTCCCTN ACGTGGGGG TGTAGCCCCC TCTCCCAAG GT

SEQ ID NO:418: (Length of Sequence = 299 Nucleotides)

CACCAAGTGG CTGCAGAGCT GTCTTCAGGA TCATAGGCCA CTGCCAGAGT CTTGGAGAGA GGGAGAGATG GAGAGGAAGG  
GAGTGAGCTT CGGTGGTCTG ATTTCTGGCT CAACGACGCA GGAACCTCAG GTTCAAAAGC AGCTGACAAG AGCCAGAGA  
CCGCTTCTT GGGTCCGGC AGAGCCTTCT GGTGGCCCGA CCCCAGGCA NGGAGGGAAG GCCCTGAAAT CCGTTTTTIN  
TGGAAGATT NGTTTCCAAG AGGAGATAAT GGCTCAATT TGTCTTCCCA AGTTGATCA

SEQ ID NO:419: (Length of Sequence = 223 Nucleotides)

ATTGTTGGGA AGGTAAACATT TTTCATGGT TTINATTTIN CCCAAAAGTA TTTATGTATT GATTTATTTG GNTCTGACTC  
AGGOGACGTA CTGTAAGACG ATATTACTTT AATCATCTTC ACATCAGTAT TTAGGAATA GCCACAGGTG CCTCATCCTT  
TAGTAGGAGT TAATTATACA TTINCTGGCC GAGTAAACAT NTCCGAATGG TATGTATGTA TTT

SEQ ID NO:420: (Length of Sequence = 406 Nucleotides)

TTTAAATATT AAGTTAAGTA TATAACTTGC CCTATGCCAT ATTGCTTTAA TCAGGGGACT GAGCATCACA TTTAGATTTG  
ATGAGTTTGG GAAAAGTTCT CAAACATCCA GACCCATGGA CCTTAAGAAT TACTGCAGAA ATCTCCTTCA ATATAGTCAT  
AGGGAGCAIT AATGCTTTTG TGGTACTAAA CATATTTTIG AGCTTAGATA CAAATCCTTC TTGTCTGAA CTGATAGGT  
AGGAATGTT TAGGTGCTC AAATCCAGAT CTTCAGGGG TTGCCACCTA AACTCATCTT TATGAGTAAC TCTAGATAAT  
AATACACTTT GGTATCTTCC AAAGTGCTTA TCTAGGCATG GAAAAGTTCA GTAATTATCA TGAGGNCCTG TTTTAGGTT  
AGGTCC

SEQ ID NO:421: (Length of Sequence = 281 Nucleotides)

ATCCAGATTA CTGACTTGTA CACAATGGAC CATATGINCT GTCCAAAATA CACCTACATT AACTGTGTG GAACANGAAC  
CTGGGCTTTG CAAAAAGAA TTTATGATTA AATGTAAACC CCCCCAAA AAAAAAGAAG CTTAGATTA AAGGTAGCCT  
TTTACCCAGA TTGTTACCA GNTGTAAAA TTCTAATATG GGTCAATAAC TGTTACAAA TAATTCATAT TTGNCCTAT  
GGTTAAGGG CTCCAGATG AAAAGGTGCT CTGAACCTCT G

SEQ ID NO:422: (Length of Sequence = 220 Nucleotides)

TTGTATTTT TAATAGAGAC GGGGTTTTC CATGTGGCC AGGCCTGTT TGAATCCTG ACTTCAGGTG ATCTGCCTGC  
CTCGTCTCC CAAAGTGCTG GGATTACAGG CTTCAGCACT GTTCTTCTC GCTTGGCTGG CTGGCTGGCT GGCTTCTT  
CTTCTCTCTC TCTCTCTCTC TCTCTCTCTC TCTCTCTCTC TTTCTCTCTT CCTCTCTCC

SEQ ID NO:423: (Length of Sequence = 391 Nucleotides)

CTGTCTCTTA TCTGGGCAAG CTTTAGACAT ACTAGCTTGG TTGGAAACTG ATATTAAAAG CCTAAAACAT GTAACTTTNC  
TTATCAGGTT ACTATCATGG GGAAGTAAAG ATTCTCGTGT TTTTGTATGT NCCATACTA TACTTTAGTA AGCCCTGATA  
TACGGTGTA ATTTCTCINC AGTGAAGGAA ACATGAAGAT ATATTTATGT GCACACATAC ATATATATGT ATATATAACG  
TATATTCAA CATGCACTCA GAGGAAGTTA GGGAGAGAAG TTTCTAGCTA AACATGATCT TGTGAAATTC TTCCATATGT  
GGAAAAGTCG TCAGTTTCATC TGACATAGAG CAATACCATA CATATATACA CACAGGGTGC TATGGTATAC A

SEQ ID NO:424: (Length of Sequence = 379 Nucleotides)

TGGGGAGCCT GAGGCATGAG AATCGCTTGA GCGCTGGNGG TGGAGGTTGC AGTGAGCTGA GACCCCGTCA CTGAACTCCA  
GCGTGGGTGA CAGAGCAAGA CTCTGTATCA AAAAAACAA CAAACANACA AACAAAAAG CCTATTATAA AACAATAGGA  
AATGCTGAAG TCTAGTGCAC CAAGACATAC TGAATTTCAA ACTAAATAAA TTAAATTTAT CATGTACATT CCACTACATG  
TCAAAACAGG AAAANCCATA GTATTATAGT TGATATGAAA TGANGATTAC ATACANCAGT AATACAGAGN AAACATGAAG  
CTGCTTATAT TTATTTGGGN ATAAGGNCAN CAGGGGCCAA TGATTTTCAC TGCAGATGT

SEQ ID NO:425: (Length of Sequence = 448 Nucleotides)

TCCACAGGGC GGCTGGGGT CTGGAGATGG GCGCTGGGCC CACGGGACGC AGATGGGGCC ACGCTCTGCC CGTGGCTGGC  
CCACGTTTCT GGTCTGCAGT GCTGCTCTCT CCCAGCACC CCTGGGGCAC AGAGGGCAGG GTCACAGCTG GGAAGAGGTG  
GGGGGTAGAA ACCAAGGCTG GCAGAAGTNT AGCCGGGCTC CCTGATAAAT GCTGGAGGAC CCCAGGGCAC CTGCACTTAC  
TGTACCTCT CTGAGAGCAT TTGTATGATC TCATGTCTCA GCTCTNNAG GCTGGAGGTC CCAGAAAACC AAGGTATGGG  
TAAGATTGAG TCTCTGGGTG AGTACCCAGT TNCCTGGCTC TAGATGGCGC CTTTTTCCCT GTGTGTCCTC AAATGATTGG  
ATGAGGCCAG GGCTCTCTCT TGGAGTCTT TCTGTAAGGG CACTGAT

SEQ ID NO:426: (Length of Sequence = 417 Nucleotides)

GCCTGGNTCA TCGCTGTCTT TTCTCTTG TCAGAGTCAG TGACACTGAC ATTAAGGTCA TCGAATATCA ACCAGTCTT  
GAGGACCTTG GTGTGTTTCC TCTCTCTTA GTCTCCAGAC CCCAGCCTGT TCAITCTGA GCTTCTCTG GCACCCCTTC  
CTTGGGGCCA AGCCAAGTAA GAAATCAGCA GSCCAAGGT GGTGCTTGGG AGGCCGGGC AGTGCCAGGG GCAGTCTCA  
TACCATCTC CCACTGGCTT CCTCTCTGCC TGCTCTTAGC CGCCACACAT ATCTCAGCTG TCGAATCCGA TTAGGNTTC  
TENCAGTGA GCCAGACAAG GAGGCCACTN GGCAGGGGAG AGAGAGACAA GGACCCAAG CAGGGATTGG CAGAAGGAAG  
GTGGAGACAT GGCTCAA

SEQ ID NO:427: (Length of Sequence = 317 Nucleotides)

AACCTGTCT CTAATAAAA TACAAAAAT TAGCTGGGCG TGGTGGTGG CGCTGTAGT CCCAGCTACT CGGGAGGCTG  
AGGCAGGAGA ATGGTGTGAA CCCAGGAGGC GGANTTGCAG TGAGCCGAGA TAGTGCTCT GCACTCCAGC CTGGGTGACA  
GAGCGAGACT CGTCTCAA AAAAAGGGCT GATAATGATA AACAGTGAGC ACTCCGGTCC TTTTCTTAC GTTTCTTTT  
TTCTCTCT CTCCACCCA CAAGTTTGC TTTTAAACA AGGTGTCTCT GCTTGATGGA AATTCACATG CTAGTCT

SEQ ID NO:428: (Length of Sequence = 296 Nucleotides)

GTAATTACAG TATTINCAG TAGAGACGG TTTCTCCATG TTGGTCAGGC TGGTCTCGAA CTCCTGACCT CGGGTGATCC  
GCCTGCCTCG GGTGCCAAA GACTGGGAT TACAGGTAG AGCCACCGTG CCCAGCCGGT TTTTTTTTT TTTTGTAT  
AGCAATGGAA GAATGGCTC GTACACAGN TAGAGTGGAA AGTCCAGGC ACCAAGNNT CCCACCTAG AAGCAAGCTC  
AGGGCTTTCT CTTATCTCT CCAGGGAGAG CACTGAGAGA TGATGGGGG TTGGCA

SEQ ID NO:429: (Length of Sequence = 422 Nucleotides)

GAGGGTTGGA GACAGGAGAC AGTGGGGTGG GAAATCCAAA TCTCAACTGC TTTTGTACTG TCTCTGCTC CCGAGTGCCC  
CANAGCCCAT GCAGACCTC TGCTGTCTAT GATATCCTGT TCAGCCCTCA ACTTTCTCTA CCATCCCTGC AACTGGGGTT  
CACTGTGAGC CAAACCAGTT TGCTTCTTGT TTTCTAAAAG CAGGAGCCCC TTCAGGACTG TATCATTCAA GGCATTTCCC  
ACCTCTNTTC TCCACTCATA TCCCTTCCCA AACTGCCTTT CCTCATTTCT CCGTCTCCAG GGAGAGGGAC TNCAGGCTAC  
CACAGNCAA AATGGTGGTC TTCAGTCCTA CGTAAGNCAA NCTGTGTGAG TGTGTAAGGA CTNAGGGTTG CTCACAAGGG  
GACACACAGA NGTGGATGCC AG

SEQ ID NO:430: (Length of Sequence = 332 Nucleotides)

CGCGATCAGC ACCCGGGACA GCGCCACCGC CCAAGTCAG GGGTGGGGT CCGGGGGGG CINGGGCTC GGCGTCTCCC  
GGNAGTNTCC CGTCCAGCCG TCGAGCAGGG TGCTTGANTN TMTCTGCAGA AAAGACTCTA GGACCCCGCC ACCATGTTCC  
CGGAGCCCCC AACCCCGGGG CCTCATGCG CCGANAAGCC TCCCGACTCC AGTGGCATCA GGCACGGGCC AGTGCCCCC  
TGGGCGCTGG NCACCATCGT GCTGGTCTNA GGCTCTCTNA TCTTCAGCTG CTGTTTCTGT CTCTACCGA AGAGCTGTGG  
GAGGGGACA GG

SEQ ID NO:431: (Length of Sequence = 413 Nucleotides)

TGTCAATTAT TAAGATGGG GACATCCAAG CACCTGGAAC AAAAAGGACA CTAAGAATGG GAGAAGAATA CACAAAGGGA  
GGTAGTACAG GGCCAATAAC AGATTTTGG AATTTTCAA ATTTCTCTT GAAGTAATTT TACAGTCAGT AAATGGAAGT  
GGAAAGAGG AATAGAAGAG CATTTCAATG ATTTTTTTT TCTCTGTAC TTACACATCT CATGACCTCA TGTCCCAGA  
ACTTAACACT TAGTTGGGTT CTAGTAGATA TTTTGGGTTG AAAAGATGTT TGCTGTTTTG CATTTTGTTC TGTTTTGTG  
GCTAGCCTGT GAATCTAGCA TTGTACGTGA GAAAGTGCAT TTCAGATTGA AAGCAACTGG GTTTTGGAAA TGAACCTCAA  
TAACATATCC CAG

SEQ ID NO:432: (Length of Sequence = 292 Nucleotides)

TTACCGTGT TAGCCAGGAC GGTCTCGATC TCTGACCTT GTGATCTGCC CACCTCGGCC TCCAAAGTG CTGCTATTAC  
AGGCGTGAAG ACCCGGCCCC GCCACCATTC ACTAATTTT AAGAAATGTG GAAGTGTCT ATATTINCTT CCACTCCAT  
AGCTCCAACA TTGTGGCTA TTATGAATTT GGCTATTAAG TGATGCCAAC AATATTTAAT GAAAAAAGA TATAGCAGTA  
TAGTTGAAGG AGGAAGCTGA AAGAAAACGG TCCATCNGTG AGGAAAAGGC CC

SEQ ID NO:433: (Length of Sequence = 335 Nucleotides)

TTTTTTCTC AGCAGAGGAT TTTATGGTG GTCACCTGTG GCACAGGTA GAGGAGCCGA AGTCTGTINT TTGTGGTGGG  
GGGGGGACCA CAAACCCCGG CCTGCCCCC TTGCTTACAT AGGCTTCCCG CCTAGAAGCG CANTATGAAC ATGCGCTAC  
GGATCCGGTT GTAGTCTGGG AGCTGCTCAA TGGGGCCATA TCCAGCCACT GCTGGGGCAC TGGTCATAGA TGTACTINGA  
GCAGATCTCA CGTACCACAC TGGCATCCAC CTCGCAAAT CCGGCTTCC CATTCAGCA GGGGGGATG CCGGNGGCC  
ATAGGTCAAG AGCT

SEQ ID NO:434: (Length of Sequence = 390 Nucleotides)

GTGCTGACT GCTGATTGGA GATGAGTGT ACCCATCTC TAGACAGTCT GTGCTTTTCC TGTCTTTGGA GCTTCCAGTT  
CCACCCCAT CAGTTTTTTT CTACCACTC CATCTGCCT TATTTCTCT TCTTCTTTT TGACTGGAAG AGTACTCATC  
TTTTCTACA TCTTTTCTA AACTGTTTTG ATTTCACTTA TATTGTTTT NAAAGTATAA TGTGCTGGTG TTCTATTTCC  
TCAGTTAGAT CAGAAGGCC CTAAAGACAG GGCTCCATG GTGTTAACT GCCATCTCA AGGCTGGGA CTTGATTTCN

CTTTTINAC CINCACAACA AGGCACTCCT CTGCAACCA GTGGAAITTT CAGTGCCTGT GGGTCAAAGT

SEQ ID NO:435: (Length of Sequence = 427 Nucleotides)

TCATAAACA GTAGATTTAT TTTATGTAGA TTGTTTTC TATAAAAATA TATTTATGTG TTCACAGGAA AAAAGTTGAG  
TTGGTATGTG GGGGTGACTT TCAGATACAT AATTAGTAA AGGTTTGCTT ATGAAGTTAG AAGGCATCTT AGCTTTTATC  
ATTTCAAAT TTTCTTCAT AAAAAGAAC ACCCTGTGAC AAAGATAAGG TAACTGAGAT TATTATTAGC ACTTTAGAGT  
TGAGAGAGTT TGAAATAAAA AGGTTAAGCA ACCTGCCTAA TGTTTATGTA CAAAATCAGT GCTGGAGCCA GGAAGAGAAT  
TTGGATTTTC CCAACCTTG GACAGTTCTC TAGGGACTCA TGCCACCAA CCATTCTTGA GACTATATAC AATCAATTAC  
ATTAAATGA TATTGACAGT AGACTAG

SEQ ID NO:436: (Length of Sequence = 249 Nucleotides)

TCAAATAACC AGGAGGGGGA CAGAAGATGA TGGCAAGSCA GACTGGGCAG TGTTTNTAG ACACAGAACA AAGAATCAGA  
ATTTGAAAAA AGANGAAAAA CAAATCTNOG CAGCTGCAAC TTAAAGTAT CACCTTTATA GATGGCAGGG ATTTCCATTA  
TGCAAATGGA ATCTAAGATT TCAATGTGNA ATCTTAGAAT GCAGTTTAC CACTTGCACT CINGTATTTG TGGTGGCCAT  
GTGGTGAGT

SEQ ID NO:437: (Length of Sequence = 404 Nucleotides)

GTCAATCACC CTAATCCCTC TTTCACTTC ACAGAACTTT CACACTCCAA TGTAATGCT GTTTGTAGAT GCTCCTATAA  
ACAGAAAGCT CTGGGAGACA GGTGCTTGT TATTCTTGT CTCTGTGATA TCTCTGGGC TATCACAAGT ACTCAAAGCA  
TAGAAGTICA ATAAATATGT GTTCAATGTA AGAAATGATC AGTGATTCTC AAGCTGCAGT GCGTCAGGA TAACCTAGAC  
AGCTGTTAG CACGGNTCAC TGNNCCAC CCCACAGTT TCAGGTCTGG TCTGGGNTGG GGCCAATAA TCTGTATTCC  
TAAAGTCCC CAAGCAATGC TGGTGCTGTT CGTCCAGGGA CCATGCTTAA AGAACCACCC GGAATAGGAC TGGTGGACAA  
AAGG

SEQ ID NO:438: (Length of Sequence = 337 Nucleotides)

CTGCAACTTA TACCTTCCAT TTAATAAGT CCAGTATGT GTCAAAGTAG TTTTCATTCC TCACAGCCAT GTTATGAGCT  
AAATATCACT AACTTTCCCT TTCAAAGGTG AAATAAATG AGACTCTGA AGATTAACTT GCCAAGGTC ACCTAGCTCG  
TTAGGAGGCA CAGGTGGGAC TTGAACCCAG TTTCTTCTGA ATTCAAAACC TCCAAATGT CTGTACATC AAGCTGCTTC  
AATGAGATGC TAGAAAATCA GGACAGTGAG CAAGCTGGAG ATAANGAAG ATATGGAGGA ACACGGGAAG TGTGATCCTC  
ACACACATAC CCTGCAG

SEQ ID NO:439: (Length of Sequence = 380 Nucleotides)

CATCGTGTAT GAAGGTAGCC ATTTGTGACA TGTTACCTTG TTAAAAACAA AAGAGCAGCA ACATGTTTAG AGTGGTGTCT  
ATAGATAGAA CACTGCTGTT ATGTTTAAGG AAAATTGGGG CGGGGCAGA AAAGATCAAT ATGACTAGTT AGAAGACTAT  
TAAGGAGAAC TTTGTACATG AATTATGGAT GTAAGAATTA GAAAAAAA GATGATCATG TTCAGAAATTT TAGCTTTTTT  
ACAATTGTAG TGGAAAAGAA AACTCCTAGA GTAATGAATC AATGGTATCC TACAAAAAGA GAGGTGCCAA AAATACCATG  
AAATATTATA TTAAAAAATT CACACGNATA GGTAGTTATA ATATGTAAAG GCCAGACTTC

SEQ ID NO:440: (Length of Sequence = 335 Nucleotides)

CCCTGAGCTT TTATTGACCA GTGGACTGTG ACTTTTGATG TAATTTTATT TTTGAGAGAG GGTCTGCTC TGTCACCCAG  
GCTGGAGTGC AATGGGGTGA TCTGGCTCA CTGCAACCTC CGCCTCAGG GCTCCAGTGA TTCTCTGCC TCAGCCTCCC  
GAGTAGCTGG GACTACAGGT GCACACCACC TTGGCTGGCT AGTTTATGTA ATTTTGTGTA TGCTGTGGA GACAGGGTTT

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CACCATGTTG CCCAGGCTGG TCTCAAACTC CTGAACTCAG GTGATCTACC CGCCTTCCAA AGTACTGGGA TTACAGGCAT  
GAGCCACCAT AATAA

SEQ ID NO:441: (Length of Sequence = 356 Nucleotides)

ACTAATTTGTTG TTTCTGCTTC AACCTGCATT TCAGAGGTG CCTGTGTTGCTG TGTAATTGGT TCTGGCATGT TTATAGGTAT  
TACAAAACCA AGTCTTATTT TGCAATTCAC AGGATTTAAG ATGAATAAAG TGATGTGGTT GTGCTAGGTT AGAGTTGTAC  
AAATTATACT CCCATCGCGG ATGGTGGGGT CCCAGGCCCTA CAACCTGACC TCTGCOCTCA CGCCCATCGT CACGCGCTCC  
CGGTGCTTCA ACGAGGAGCC CCTGACGCTG GCGGGCTTTC AGCAGGGNCC CGGCCAACCT CAGTGAAGTG GTGCAGCTCA  
TCTTTCTGGG TGGGACTCCC AATCCCTTTT CCTTT

SEQ ID NO:442: (Length of Sequence = 371 Nucleotides)

GATGATTTTG TATCTTTTTC TATTTATGA GATAATCAAA TGATTTTGT CCTTGTCTTCT ATTGAATGTA TGTTTATGA  
TCATGTTTAT TGATTTGCAT ATGGTGAGCC ATCTTGTAT TCCTGGTATA AATGCCACCT GATCATGGTA TATNATCTTT  
TTNATGTGCT ATTTGATTG GTTTGOCAGT APTTGTGTA GAATTTTTC ATCTGTGCT ATTAAGGATA TTGGCCTGTA  
GTTTTTTTG CTGTGTTCTT CTTTGGTTTT GATATCAGGA TAATGCTAGC TTTGTAGAAT GAGTNAAGGA GGAGTTATCT  
ACTCTCAAT TTTTGGGAAC AGTTGCAGAA CTGTGTGTG TTTTGAACA G

SEQ ID NO:443: (Length of Sequence = 329 Nucleotides)

TGAACGCTT TATTTTTIN ATTCCCATC CAGAAACCC AGTGTGATGG TGGAAGCAGC ATGAAAACAA CATCTCCCA  
GGCTCGCAG TAGAGGCGAA GGAACAGAG CTGCCATGT GCTGTNTCT AAAGAAGCCA CCTCAGGTT GATGTCACT  
GTGGGAGACC GGTCCACT ACAGACACCA GGTGATGGT CACAGGCC CAAGCTCAG CCTGCTGAGT CCGAAGACA  
CAGGCTCATT AATAGCTTC GTACAAAAC CCAAGGGTGT CCTCCAGCT GGTAAAAAT TGGGCAATTT CTACTTGGAG  
GTCTGCTGT

SEQ ID NO:444: (Length of Sequence = 358 Nucleotides)

TTTTTTTTTA AGTACATAGG TCTTTATTA AACACTGATT TTTTTTTTAA ATATATACAC ACAAACTTA GTTCAGCAAG  
GCTTCATGAT ATACACCAAT TCCAAAATAA AACAACTCAA TGGTCCAGGT GTAGAATGCC AGATTCTTT TATCATCTGC  
GAGGAAAGA GAAGCAGAT GAGGAAGAT GAGGAAGGC GGGGACAGC TCTGCCAGA NGAGCTGCGG CCTCTGGCA  
CAGCAACGC TCCAGGCTG GGGCTGTTC ATATCTGGAG TCGGAGGGAG ACTCCATCG GCGCTTTGG GACTGAAAGG  
CCCAAGGCTG TCACCAGTC CCGAAGAGA GGGAGGCA

SEQ ID NO:445: (Length of Sequence = 302 Nucleotides)

TCAGAACGGT GAGAAATAA TTGCTGTGT TTATAAGTA ACCGTGTTAT GTATTTTTT TATAGAAGCC TGATCAGAAT  
AAGACAATAT TGGATAGAAT ATTCAGGAAT GTCTTGCTC CAATGTGGC CCCCCTGTAC TGAGCTCTAA TCTACACTCA  
CCTAAAAAT TATAAATCA TAATAAACT GAAAAAGTCA AACTCTCAAT TGCATCCAG CACAAATATC ACAGTGTCT  
ATTTAAAAA TTATGTCAAG GCCCTAAAA GCTAAAATCC NCAGTCTGC TAATATTCT CT

SEQ ID NO:446: (Length of Sequence = 367 Nucleotides)

ATATATATAT ATACACACAC ACACATACAT ACATACATAC ATATACATAA CCGTGTGTTG GTAAGGCTA TTGACAGPAG  
CCAGATATCT GGGTGAAGT TAGAAGATGG GCAAGGAATT CTTATCTCAG AGTTTCAACA CTGCGACAAT GTGGAGAGAA  
GTCTCCTGGG AAAATGCAGA TGCCCAATAA CTTCCAAAAG AATCAGGGAA GTTGGAGTAT TTTTGAGATT TACAGTGTCT

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TTACTTCAGT AAAACAAGCC ACAGCAACAT TATGCTCTGC AGAGTCTTCT GTTCACCTTT GGGATGGAAA AGAGCTGCTT  
CTCCTAGGGN GGCAACTAAG GCCCAGGACC AAAACTCCCA TCTCCTA

SEQ ID NO:447: (Length of Sequence = 295 Nucleotides)

CTGCAACCC TTCAGCATTT AGCTAAAGTT ATTTCACAAT TCAATGCTTG TCTTGCACTG TCCTGGTCAT TTA AAAACTG  
GTATCTCTTC AATAGCAAAT AGTATCATAA CAGACCACTA AATTGGAGG GAAAGTGGTT TCTATTGCAG ATGGATGTAA  
TTAAATTTGG TGTAATCAC AGGGTACAGA ATTCTTATCT GGTAAGAATT CTGACTTTTT TTTTAAAGAA GAAAAAATAT  
ATCCAGATCT GTATCCACAT GCTATTTAAA TGCTCAGGNC AAAAGAAGC CACTA

SEQ ID NO:448: (Length of Sequence = 233 Nucleotides)

CAGATCAGC CCAATGCCC ATCAATCAAC TGTGCATAAA GAACTGTGA TATATATATA TCATAGAAGT TCAACAGAA  
AAAATACAAA AAAGTTAGCA GAGGATTGTA TCCTTTGCCG TTTATTTTGA TGACCATGCC ATCTTCTAAT CCCAGAAAA  
AAACTGGAAA ACAGAATAAA TATAATTINC TGATTATNCT TATGTAACAT AAATGGAATA TATATATATA TAT

SEQ ID NO:449: (Length of Sequence = 341 Nucleotides)

ACTTCCTCC TCAGGCTCCT GTACCAATCT TCAATCACT TGGGATGTC TAGTCTAAAA CATTTATTTT ATTGAAAGG  
AAAAATATCA ATTTCTATCT AAATGGAGT AAGATTCAAT TCAGATGTGT TTATTTACAA AACATAAGTT TGTTATTTAT  
CTGTGTTTAA TTGTATCNG GAACATTACA TGTAAGAAC ATTCATGTA AAGAACCAGG CAAGTTGGCC AGGCATGGTG  
GCTCACACCT GNTAACCCCA GCACTTTGG GAGGGCCAAG GCAGGTGAAT TGGTTGAGAC CAGGNGGTTT AAGACCCAGC  
CTGGGSCAA TATTGGCGAA A

SEQ ID NO:450: (Length of Sequence = 313 Nucleotides)

TTTTTTTTT GACACAGTT CAGTCTCG AAACCTTAG CTAATCTTGA GCATTCCTTC AATGGTGGGA ATGGGCAACA  
GATCACCATA GTATTAATAC TCTGTGTAAT TTTATCACTA GAATGGTTAA TTTCCATATC ATAGTAGAGC TGTTGCAGAT  
ATTTTGAAAT CCATTATAC TCACTGCCAC TTCAAGATTA CTGTAGTTGT TAGAACAGCT GCTAGATCTT ATTACTTAAT  
AAATTAATAA AGTGTGAATA TAACATATA ACCATTTTNA AAATGTTTTT TGGATAACIT TCAATATAAT TGG

SEQ ID NO:451: (Length of Sequence = 351 Nucleotides)

GGGCGGCTC CTGGGCACCC ACCCAGCTCA TTCCCGAGC GGCTCCCTC CTGGGGTTGA GTGTCTGGG CCTGAGTCTG  
CAGCCTCAGC CATCTGTCC CCAACTTGAT CTCCCACTGC TAGTTACAAA CAAATCGCCC GGCTGTGCA AACCTCTGG  
GCTCAGTCCC CAGTCCCGG GGGCATCAIT TCATCTTTC CTAGCCTGTA AGGTTTCTCC TGAAAAATCT ATTGTAGTC  
TAATATGAAT TTCTAATAT GTGACTTAAG GCTTTTCTCT TGCTGCTTTT AAAATTTTCT CTTTGTCTT TGACTTTGAC  
AATTGGCTA TAATGTATGT TGGAGAGGAC C

SEQ ID NO:452: (Length of Sequence = 363 Nucleotides)

GACAAGGAG AATTCTTGCT TTACCTATGG ACTGGCTTAA GCCGTGTCG ATCCGAGGAA TGTTCAAAT GTGTCTGTG  
TTCTCTTAC ATTCCTTATT GTACCTCAIT GTTCAATTCA CTTTGTGAAA TTCCACCTAA CATTTAATTA TTTTAAATTT  
CTCCGTCATG AAGTTATTTT AAGACACTGG AATAAGTGCA GCTTTGTITA TAACAGCATA GGATTATAAA CAACCTAAAG  
AGTCAGCAGT GACATTGATG GCACATGCAT ACAATGCAAT ATTCTGTAGC TGTTAAATA ATAANGAAGA TCCGTCTCTG  
TGTATTTGAT ATGGGAAGGC CCCCCAAGGT CTACAGTTAA GGG

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SEQ ID NO:453: (Length of Sequence = 382 Nucleotides)

ATGAGGGAAA AGATGGTGCC ATTGAAGATA TTATCACAGT GCTGAAGACT GINCCCTTTA CTGCTCGCAC CGCCAAGOGT  
 GGCTCTGGGT TTINCTGCGA ACCTGTCTCT ACTGAGGAAT ACCATTACTA AACTATTACT CTTTCTCACC TGATGCTCTT  
 AAAAGATCTT AGAAACCAAC CATACAGACG AGCOGATGOG GTGAGGAGAA GCGTCAGGOG GCGCTTTGAT GATCAGAAGT  
 TGGTTCCTGT TAATGGTGCC GAAATAACAA TGTGAACCTG AGACTGGCCT GCAATGAATA CAGGGGTGTG CGTGTTCAGG  
 AGGTTTCTG TTGGGTTCAC CCATGATGCG GGGCCINCCO ATTTGGGCCA ACTTTTCTG GG

SEQ ID NO:454: (Length of Sequence = 391 Nucleotides)

CGTCTGCCGT GTGTGACTGG CTGGAGAAAT AAGTTAGGGA GAATCTAGAT ATGGTTGAAT TGTCAITGCT GCTCAAAATT  
 TGTTTTCTTG TGACAACAAC AACACAACA ACAACAACA CAACAACAAC AACAGGTGAA ATTATCTTGA AATACAAAAG  
 AAGTCTGTT GGTCTGAGA GTGAAAAAAG GAATCTTAA CAGCTTCAGC TTGCACCAAG AGGATTTTTT TTATCAGCT  
 TCCCTCATA AGAGAGGATG GAGGATTTTG GAAGAGACAG AACCTGGGAG AAATTCAGT GAGCTGCCAC TTAGTGGTTT  
 AACCTACTTC CACAGAAGGA ACCTATTATT GTTNTATTG GGAATTCAGT AAATGTGGGC CATGTAAAGG G

SEQ ID NO:455: (Length of Sequence = 282 Nucleotides)

TTGAGTACTC ATTGAGGAC TGCAGTCATA GATTTAAAGT GTAATCAGTC AACTCAGTGG AATTACTTTC TCATTAATC  
 TTAAATTGCT TCAGGACTGT TTCAGCCTAA GCCAGTAGCT GGGTTTAAAC AAATTTGAAG ATTTINCTAG GAGAGTTTGG  
 CACGAGGAGA GAGGGGCAAA GCGGTGTAAG GCAGTGTTTA TAACAGTGGC CCATGGAATT GATCATGGGT AAAGAGAAAA  
 CAAGGACATG CGAGGAGGTG ATAAATAGAN CAAAACAAAG CA

SEQ ID NO:456: (Length of Sequence = 340 Nucleotides)

CTAACTTATG TTTGAGATCT TCAATGAAT TAGTTACTAA TATTINGCIT TATCTTCTC AAAAGATTTA ACATGATAAT  
 TCTGACCTAA TCCAAAAAA AAAAATTCAT GGGCCACTGT TTTGCATGTA ATATGTAAGA NCTCACTTG ATGTTAAACT  
 CCAACCTTG GCTGAACAG GTTAATGATC ATTGTINGIT ATTTATTTCT ATAAATAGTT TGAAGTTGGC CAGGCCGTGT  
 GGGTCTGCG TGTGTCTCC AGGGTTGGAG TTGGTGGOG CAAATCTCG CTTCACTGCA AGCTTCGCG TCCCCGGGT  
 TCACACCATT CTCTCGCT

SEQ ID NO:457: (Length of Sequence = 338 Nucleotides)

ATGAAAAAGT CTCCAGAGAT TATCAGTGGG CGGATGACAT TTGCCCTCTG TTGCTATTCT TTGACATTCA TGAGATTGCG  
 CTACAAGGTA CAGCCTGGGA ACTGGCTTCT GTTTCATGC CACGCAACAA ATGAAGTAGC CCAGTCTATC CAGGGAGGGC  
 GGCTTATCAA ACACGAGATG ACTAAAACGG CATCTGCATA ACAATGGAAA AGGAAGAACA AGGTCTTGAA GGGACAGCAT  
 TGCCAGCTGC TGCAGATCA CAGATTTCAT TATAAATAGC CTCCTAAGG AAAATACACT GAATGCTATT TTTTACTNAA  
 CCATCTATT TTTATAGG

SEQ ID NO:458: (Length of Sequence = 370 Nucleotides)

GTITCTTTC GGAGCTGAAC CAAAGAATGT GCACCTCTT TCTCTAGTGC TGTGGTGTCT GCTTATTTTT GTATTTGTGC  
 TTTCCATCCA TCTTCTGTGA TCACAAGGCA TTCTTAAGGT TTTCTAGCAC GACTTGGGA CATCCAGACT CGTGGGGGGC  
 CCACCATGG CTCGGTAAGC CAGCAGCCA GGGCACTGGC ACTACCATGA GGCATGCAT TAATGTCTGC ATACAGCTGT  
 TACCCGAOGG CGCACAAG CAGCTGGTAA ACTGCCAAG GGGCCCCAT CACGTCACC AGGOGTGGC CAGGTTGCAA  
 AGGAGGAAAA ACAAAATTC TGGTTCCGT GTGGGACAGT AAAGCAGATG

SEQ ID NO:459: (Length of Sequence = 339 Nucleotides)

ATTTTCTAG AACTGAAATC ATCTACGGTT CTCAGAGCTA AACTTCCAAA GCTACAGTCA GCAATTTTTC ATCAGAGCCC  
AAGGGAGAGG GGCCAGGGTA AAAGAGACGA GACTGTAGAG AGGCATAGAG AGACCAGTAG GAAGAGGGTG GGAGAGGGCA  
CTTATTTCTC TCTGTCTCT CAGTGGGTTA CAAATCAGAT CTGGTGACAA CACTGAGGGG GCCAGGTCAG GGTATGTNGA  
TGAGAAATGA CACTGGAAGG AACATCAAAG CCGCAGCTAC AAAAAGAAAG TCATCAAGCC CCAATAGAA GGGGAGCCT  
CCAGTGCAC CTCAGAAAT

SEQ ID NO:460: (Length of Sequence = 380 Nucleotides)

GAGCTTTTGC ACTGCAAAAG GAACAGTCAG CAGAATAAAC AGACAGTTAG AAGTACTTCC CTATGTAGAG ACACACTCAA  
GTGAAAGGGA ACCAGGCTCT ACCACTTGAA ATAAGGAGTA TCAAGGAAGT TGTGGACAGC TTTTAAACT ACCACTGGCA  
ACTAGGTCIT GAGGTGGATA AATGAAGAAA TTGGGGGAAT CTCACACTGG AGATGTTTGA TGTAGGTAAA TGANCTGAGA  
TTCATTAGGT GTGAAATAAT GAAGTGATA TATAGTTCIG CATATACATG CCTGGGGAAG GTATAATATT CAGAGGCATA  
CTATCACTCA ATTTGTATCT GCTGTGGGCC TCAGACAGTA CAGGGGCAGT GTTTGCATTG

SEQ ID NO:461: (Length of Sequence = 317 Nucleotides)

GTCATTAAGA AGCCTTTATT GGGTTATATT CAATTTGACC TCCCACCAA TTAAGCGGGA AAAACAAAA AAATAAGAAA  
TCCAGTAAA AGAGCCCTC AAGATTTTAT AACTACAAA CTAAAGCTGC TAGTTAATAA GGAAATGGCA GAATTTTTCAG  
AGCTGTATAA TACAAAAATT CCGTAAATTT AAGCAGATGT TTTCTCACT GATGACAAAT CTCCAACAC AATGTGAAGT  
TATGCTACTT GGGATATTG TAGGCAAAAC CATTTTTTTT TTGTACAAA ACAAAAGCAA GGGACCTTGG AAAAAA

SEQ ID NO:462: (Length of Sequence = 261 Nucleotides)

AAAAAGGCCA TAAATCCTIN CCTCGTGA GCTTACCTTC TAATAAGGAG AGACAGAGGG TNAGAAACAA ACAACAAAA  
ATATGTNAGT TAACACAGAG TGTGGAGGG TGTCAGGTGC TATGGAGAA ACGTGGAGCA TGTCAAGNG AGAGCAGGCA  
AGAGGGCATT CTGGAAGGC CTAGGANGAT GGTGACATT TACCTTCATA TCCACCAACC CCCAGCACAA AGCATTITTC  
AGAGGNAGNC AGAGGAGGCA A

SEQ ID NO:463: (Length of Sequence = 387 Nucleotides)

ATACAAGTAC ATCCAGGAGC TATGGAGAAA GAAGCAGTCT GATGTCATGC GCTTTCTTCT GAGGGTCCGC TGCTGGCAGT  
ACCGCCAGCT CTCTGCTCTC CACAGGGCTC CCGCCCCAC CCGGCTGAT AAAGCGCGCC GACTGGGCTA CAAGGCCAAG  
CAAGGTACG TTATATATAG GATTCGTGTT CGCGTGGTG GCCGAAACG CCCAGTTCCT AAGGGTGCAA CTTACGGCAA  
GCCTGTCCAT CATGGTGTTA ACCAGCTAAA GTTTGCTCGA AGCCTTCAGT CCGTTGCAGA GGAGCGAGCT GGACGNCACT  
GTGGGCTCT TGAGAGTCT GAATTCCTAC TNGGGTTTG TGAAGATTTC ACATACAAAT TTTTGA

SEQ ID NO:464: (Length of Sequence = 397 Nucleotides)

GTTAGCCGTG GCGTGTGGC GTCGCTGAA CGTACCAGGT ATTGTGGCTC CATGGGCTGA GGATGCTTCT CCAGCGAAGG  
AGGCAGGGAG CCGGGGAAGT GGGGTGGGT CGGACACCG ACAGCAGCTG CCAGACCAGC CATGCTGCGC TCAGCTCCCT  
CAGGCTGTCA CTCTTAATCA TCATGCTACT ATCTCTGGG CGTGTCTAGT ACCATCAACG ACGTGTCCCC CAAGCTGCAG  
AGGACGCAA TCCAGCTCTC CAAGAGGCTC TGTGGCCCT CTCCACATGG GCTTNAGGT CAAGGGTTGG GGGCAGTTT  
GGACCGNCT TCTGNCTCT TINGAAGAAG ATCTCCAAN GTNCCGGCT TCAGCTTCTT CCGGGCTCT TTTGCA

SEQ ID NO:465: (Length of Sequence = 320 Nucleotides)



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GACGACATTT ATTCCCTTTTC CAAATGTTAC AGTAAAACCA GGTGGAAGAG AATGGTTTTTA GCAGTTAGAA AAAAAAAAAA  
 AGTACAAATC TGGGGTTTGG CCATTAAAG TTATTTACAA CAGTGGGAGA AAAAAAGNCA AGAAGTTGTT TCACATTACA  
 GACCTCCCCC CACCCCAAAG CCTAATACTT GCCTACCAAG TCAAAAAAGA GACACAGTTG ATTACAGGC TGGAGGTTTG  
 AACTTGAGTA AGACATTTAT AAAAACCTAG ACGGGGCACT GTCCINCCA GCCCAGGTGC CACTTAGGCC AGCACAAGGG

SEQ ID NO:466: (Length of Sequence = 352 Nucleotides)

CATGTATTT CCCTTCTTCA AATTAAATAC CTACCAAAAA ATGGAAGA AATTTACATG CACTTTAAAA TAGTAAAATG  
 GAAAGTGAAT TTTTAAATA TATGCAITAA AAGTTTACTT TAATTTCCAG TGGGACTTCC TTTATGAAAT TTTCCATAAC  
 CTCCTCTGG AGTATTACAA GATCTCCAAC ATCTCATAAA CTAATTGTGA TATTAGTGGG ACCATAAGCA AATGTATATT  
 TTTAGTGGAA ATAGATTATG AATGAAAGCC AAGCACCTTA CTTTAAAGCC AAAATATGAG ATTTTCCATT AAAAACCAIT  
 GTTCATAAT AGGGAGGGGG GTTTTTTAAT TT

SEQ ID NO:467: (Length of Sequence = 352 Nucleotides)

TGAAGGCCAA AAAATAAATA AATAAAAATA AATACCATT GCAGAGACAG AGAAACCATC AGAAGAAGAC AAGCAAGGTT  
 GTTGAATTA CTACGCTAG AATTTAGAAT AACTACTATG ATTAAAACGA AAAAGGCTTT AATGGATAAA ATAGATAGCT  
 CCTAATAACA GATAGTAATA ACATATGGGT AATGTGAGCA GAGAGATGGA AATCTTAGAN CAACAACAGC AACACGCA  
 AAGCGTTAGG GATCAAAAC ACTGTACAA AAATTAAGAN TCCTTTTAT GGGCTTNTTA ATAGCTNGG ATACAGGTAA  
 GTAAAGAATC CCTGTGCTTT AAGGAGCCAT CA

SEQ ID NO:468: (Length of Sequence = 336 Nucleotides)

TGACATCTGC ATCTTACATT ATTAAATGCA AAGGAATATC AAAGACTCCT CTGCTAGAAC CATTTTATT CATAAAGTCA  
 CATTATCAIT GTAGAGTCT GTTAAAAATG CTACCTGAAA TGAATTATGT CCGTCTTCCC ATCTGGCTTA CAAAATCTTT  
 GAGGAAGCAT CTGCCCTGTA GCTCTTTATC TTCTATTTC CTACTACAGG GACAATGTAT ATGGAAAGAT AAATGTGTGT  
 AGGTGTATAA ATTCTCAATA AATATTGCT GAATTAGATT GTACAGTGT TATCTTTTAA GNTTAACTCA TCTGAGGTA  
 CATTTTATTA TTGGGC

SEQ ID NO:469: (Length of Sequence = 156 Nucleotides)

GACCGATGTA GAATCTGTG TGGAGACGTT CTCCCTTCA ATTCAATGG AAGNTCTTT TCTGGCATGA NCTCTCGAT  
 GTCTAATGAG CTCTGAGCAC CATCCATAAG CTTTNNACA TTCTTANAT ATAAAAGGTT TCTCTCCACT GTGAAT

SEQ ID NO:470: (Length of Sequence = 350 Nucleotides)

TTCTCATGTC TGAATTTAC ACGCACAAGT CTGAAATGAG AAGTTTCTT AATGTTGGTT TTATGGTTG GTTAAGATTT  
 TTGGGAAATG AAGGGCTCTT CATTAGGATA AAATGGTCTT AACTTCCCAG AGAAGAATTT CCTGACAACG TGGCTGAAGT  
 TAGATACAAA TGTTAATATA GAAGANTGCT TTTATTTGAA TTCTAGCAA ATGGTTTTCA ACTACTTTAA ATATGACCNA  
 CTTGAAAGTA TTATTCCTNT TTTAAACTA CTTTINATGT ATAGATCTAA GGTCTGCTTG AAGCTAGTAG GTTAAAGTGT  
 TTGAGAAATA AAGGCAAGAT TTTTNCNTTA

SEQ ID NO:471: (Length of Sequence = 270 Nucleotides)

GGAGCAGGGC TGGGAGTCAG TGGGAGATTG GGAGTCCAAG TCTGGACATG TTACATATGC TATGTCTATT ACAGATCTGA  
 GTATAAATGT GAAGTGGAGT TTTACCACGT GATTCTGAAG TTCAGAGAAG AGGTACAGT TAGAGATAAA GATTNGGAG  
 TCACAAATAT AAAGATGTAT GACTTINATGA GATTACCAAG GAAGTGGAGA TTAATAGCAA AAAGAAAAGT TTCAAGCTTC  
 AAGCCCCGAA GCATTCTAAT GTTACAGCT

SEQ ID NO:473: (Length of Sequence = 345 Nucleotides)

TTTATTGTAG TTCAAATACA TAACTGAAC ATTCAAACAT CTTAAATTA AACTTTAGCA ACAAAGTTTA ACATTCAAAC  
AGGAGTATAG TTACAAGAA ACACCCAGAA AGGTAATTTG TTGCTAATC CAGAATATTG ATAAAGATCA CTTAATGGTG  
AATAAAATAT GTTTAACCAG TGGTCTATT CTGGCCAACA TGTTAGTTAT GACCGTGGTT CCATACCTGA GAAGAAATTA  
CTACATAAAT CTCTCTTAG GCTAAACAAC ANGACTCGGT CTATAATTCA GAGGGGNTAA TCAAAGCAG TAAGGGTACC  
AAAATAAAAC TAATCTGATC TTTAG

SEQ ID NO:474: (Length of Sequence = 433 Nucleotides)

CAGAAITAGA GCTGTACCCC AAGGGGGAAT TCTGTCTAG GAGACAGTGA GINCTAAGTA CACTCTGGAC AAGCACCAGA  
CACAGAAGCT GCCTCAGTTT GTGCTCCCC TGCAAAGCAG AGCCTGAGAC AAGGATTGG GTACAAGGAG TTCACTCAA  
TATTATATTT CCAAGATGCA CCCATGCTTT ATATGGCTAT AGTGCATCCA TTTTACTGCT TTATACTTTC CATTAGGTGA  
CTATATTAGT ATATATTAT AATTCCTAGG TCTTTTGTG CTCTTATTG TTAATAATTA TAAACTCCAA GCCCATTGTG  
GTAGATGCT ATTTCTCAGA GATATTTTCT GCTCCTTCT GGGGACAAT AATACTNTTC TCCCATCAAT GGCAGATGTN  
GGGCTTGINA CATTTTCTGG TCAATGGAAT GAG

SEQ ID NO:475: (Length of Sequence = 427 Nucleotides)

GATATGGTTT GTGTGCCCAC CCAAATCTCA TCTAGAAGTG TAGTTTCCAT AATCCCCACG TCGTGGANGG GACCTGGTGG  
GAGGTAATCG AACCATGGGG GTGGTTACCT CCATGCTGTC CTTATGATGG TGAGTTCTCA TGAGATCTGA TGGTTTTATA  
AGGGACTTTT CCCCCCTTGG CTCTGCACIT TTCCATGCTG CCACCACGTG AAGAAGGATG TGTTTGCTTC TCCTTCCACC  
ATGATTTAAG TTTTCINAGG CCTCTCCAGC CATGCTGAAC TGAGAGTCAA TTAAACCTCT TCCTTTTAAA AATTACCCAG  
TCCCAGNAT GTCTTCATTA GCAACCTCAG AGCAGATTAG NCACAATTCC ACAACTTGGA GAATNGGTGT TCAAGTTTCA  
CTCTGGCCTT NAACAACCCA AAATTTA

SEQ ID NO:476: (Length of Sequence = 351 Nucleotides)

CGCGCTAGG GCGGCGGGG GTCGGGACGC CGGGCTAGGG GCGGCTCATG TGGCGCTCA CGGTCCCGCC GNCCTGCTG  
CTGCTGCTGT GCTCAGGCTT GGCGGACAG ACTCTCTTCC AGAACCAGAG AGAGGGCTGG CAGCTGTACA CCTCAGCCCA  
GGCCCCINAC GGGAAATGCA TCTNACGGC CGTNATCCCA GCGCAGAGTA CCTGCTCTCG AGATGGCAGG AGTGGGAGC  
TGCGGCAACT NATGGAGAAG GTNCAGAACG TCTCCAGTC CATGGAGGTC CTNAGTTNC GGACGTATCG CGACCTCCAG  
TATGTACCG GCATGGAGAC CCTCATTCGG A

SEQ ID NO:477: (Length of Sequence = 333 Nucleotides)

GGTCTCACTC CGTCATCAA GCTGGAGTGC AGTGGTGCAA TCCTCACTC ACTGCAACCT CCGCTCCCGG TTTGAGTGAT  
TCTCATGCCT CAGCCTCCCG AGTAGCTGGG ATTACAGGCA TGAGCCACTG TGCCAGCTG GGATATAGAA TCTAAGAGTT  
GATTGTGGAA AACACGTGAA TCTATTGCGC GCATTNTCA TTAGCAAGA TGGCAGCAGT CCAGCTGTTC TTTGAGCTG  
GAGATGAAT TTTAAAAATC CCCTTCACAC TTAATGTACT GACCGAGACA GAAGTACCTG AAAAACAGCT NTGCATGGCA  
GGCCCGGCAA TAG

SEQ ID NO:478: (Length of Sequence = 458 Nucleotides)

ACATGTTAAA ATAAGGTAAT ATGAAATAAT CTAATAAAAA AAAAAGTGCA GAACCAAGAC CTCTGTGATA ATCCTATTTA  
AAAAATAGC TACAATTTTA GTTAGAATGT TTCCCTATG AGAAAGCATT TTCTGCATAA CTTTAAATGT ACTGACCTTT  
TCCAAGCTTG CTGAGCTGGC CTTTGTCTCA ACTCACTGG GACACCTTC CTGTGCTTC ACCAGGGCCC ACCCCAAGTC  
CCAGTTTCTC TAGGGGGTCT CTCGGGACCC CTGAATCCC TTINCTGATT TGCTGCTCT TTAGCAGNCG GAATGGGCTG

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GCAGACCACC CTACATNCTC CTGTGTGTGG GGACACTGTC AGGNTGTCTT CCTGTCATTA GNCCTGTCTG AGTTTCCTAC  
CATGTGNCCTA GGATGGNGTC CATAGTGGGG GCATNAAGGA CTTAGGATGG GCCCAGTC

SEQ ID NO:479: (Length of Sequence = 360 Nucleotides)

GCATCGTATC TNCCTTAAAG AAAACACTTC TTCAAATCC TACACTATGA AAAACTGTCT TCAGGAATTG TTTATTGGT  
CCGTGTATCT AGTGAGGCTG AGTTCTTAAA TCTTTCACCC CCAAGTTAAA AATTGGAGCA ACAAACAAA ACTCCAGCAA  
GGCATAAATA AGATATTAAA GTGCATATAT ACAATACCAG AAAAGTTTAG ATTGGGAACA GCAAAATTT CTAGTGCAA  
AACTGCTTTT GCCAGCAAAG CTCCCTCTCT GGAATCAAAG GGCTACAGTA AAAGTTAAAA TTGGAACAGG NTAAGCAAT  
GTCTGTCTTT AGTCACAAGT NAATATATGT GCATGCACCC

SEQ ID NO:480: (Length of Sequence = 322 Nucleotides)

GAAATTAAGT CTAAGCAAAA AGAAAAATAA AATGACGAGT TACTGGGTGC AGCACACCAA CATGGCACAT GTATACATAT  
GTAACAAACC TGCCCATCAT GCACATGTAC CCTAAACTT AAAGTATAAT AAAAAAAAAA AAANTGAAAA GCTTCAGCCA  
GAGGTCAAA TGCTCACAAC TCATTGACCA AACTATCTC ATACCCGINT TAGAGCANGG NGCAGGAAAG CAAAACCAT  
CTTCTACTG TTAAGTGNA TACAAGTTC ATGAGGGGAT GCAATTININ TCTTGGNCAC TCCTGTGTCC TCAGGGTATA  
GG

SEQ ID NO:481: (Length of Sequence = 369 Nucleotides)

CCTGGGCAAA GCATTGATCT GGTAGCCTTG CTCAGAAC CTTGTCTCA CAGTCAAGCC TCAGAAGCCA ACTCCTTTGA  
AACTTCCCAA CAGCAGGCT TTGGCAAGC CTTGTINTC ACAAATTCG AACACAACAA TCAGATGGCA CCAGGGACTG  
GCAGTCCAC TGCGTCAAC TCTGTCTC CTCAGAGCT GTCATCGTC CTTGGCTCAG GATTGGAGA GCTTGACCA  
CCAAAATGG CAAACATCAC CAGCTCCAG ATTTGGACC AGTTGAAAGC TCCGAGTTTG GNCAGTTTT ANCAACANCC  
CAAGTACACA GCAGATAGG TACAAGTCAA CCTACACT ACTACTTCT

SEQ ID NO:482: (Length of Sequence = 255 Nucleotides)

GAGAGAATCT CGCTCTGTG CCCAGGCTGG AGTGAGTGG CGCAATCCG GCTCACTGCA ACCTCGCCT CCGGGTTCA  
AGTGATTCTN CTGCTCGGC CTCCCACTA GTTGGGATTA CCGGTGCACA CCACCGCACC CCGCTGATTT TTTGTATTT  
TGGTAGAGAT GGAGTTTAC CATGGCTGG CTGGTCTGA ACTCTGATC TCAGGTGATC TGCCCGCTC AGGCTACCAG  
AGTNCITGGG TIACA

SEQ ID NO:483: (Length of Sequence = 353 Nucleotides)

CTGGATAATC AGGGCCATGT GCTTAAACAG GATGTAAAG GGAAGCTCAT GATTAAACAT GGGAAATATG CAGCAAATTG  
CAAGACCTGA GCTTAACCGC ATAATTAGAA CATAATTIN CACTTCTTCC AGAGCATCAG CCAAGCAAAG GACTGAGAAA  
TCTGCAACCC AATTGTCTA AAAAGAACT TAGGCTTAC ATTTGTGACA TAATTCTTT TAAAATGAAT ATAAAATTT  
ATTTTINATA TTTGTAGAGC ATAGGATGAT TGAAATCCAG TTGTGTTTT ATCTGACCTC CATATCTAAT ATGGCTAGTG  
CGTTACTAC TCTACAGAAC GCGCAATAG TCA

SEQ ID NO:484: (Length of Sequence = 371 Nucleotides)

GACCCAGAAA ATGGAGCTAG CTACATTCT CACACTTACT GTCAATTA CATGTTTATA TTCTATTAGT TGTAATTATT  
TTTCACTAT CCTCTCATTA GAATGTTATA CCTATAGAGC AGATACCAAT CAGTTTAA TTTTGTGCC GACTCTCTAG  
TAGTACGTG ACCTATTACA GGGAACTTAA AACAAACAAA AGTCTGTG AGTCTGGAT GTTTAAGGA TCGAAGGAAC  
ATGTTGGTCC AATTGCTT CACAGAGGT TACCTCTCT TTTTACCGA ATGTTGAAT GCTCCCATGT GGATTTTAA  
GGAATCCAG TCTACCTCA GGGGAAGNC CACATGTAA GCCAGAGTC T

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SEQ ID NO:485: (Length of Sequence = 376 Nucleotides)

GGTCCGACGC TGTGTCAAGC TCTGCACCGG CCATGAGTAT GCAGCCAAGA TCATCAACAC CAAGAAGCTG TCAGCCAGAG  
 ATCACCAGAA GCTGGAGAGA GAGGCTCGEN TCTGCCGCCT TCTGAAGCAT TCCAACATCG TCGTCTCCA CGACAGCATC  
 TCCGAGGAGG GCTTCCACTA CCTGGTCTTC GATCTGGTCA CTGGTGGGA GCTCTTTGAA GACATTGTGG CGAGAGAGTA  
 CTACAGGAG GCTGATGCCA GTCAGTGTAT CCAGCAGATC CTGGGAGGCC GTTCTCCATT GTAACCAAT GGGGGTCTC  
 CACAGAGACC TCAAGCCGGA GAACCTGCTT CTNGCCAGCA AAGTNCAAAG GGGCTT

SEQ ID NO:486: (Length of Sequence = 396 Nucleotides)

TTGATATTG TGTCTAATTC CAGCTACTTT GAAAGCTAAG GCAAGGGGAT TACTGTATTA ATAAATTCCT ATGCTGTAA  
 TAAAGACATA ACCAAGACTG GATAATTCAT AATGAAAAG GTTAATGGCC TCACAGTTTC ACATGGCTGG GGAGGTCTCA  
 CAATTATTGG AGCAACAAG AGACTTTGTT CAGGGGAATC TCCACTTATA AAACCATCAG ATCAGGTGAG ACTTTTTTGC  
 TATCATGAGA ACAGCATGGG AAAATCCAC CCCATGATT CAATTACCTC CCACAGGGTC CCTCCAGGG ACATGTGGAG  
 ATTATTACAA TTCAAGATGA GATTGGTTG GGGACAGAGA GGCCAAACCA TATCAATTAC TTAAGGCTAG GGGTTT

SEQ ID NO:487: (Length of Sequence = 375 Nucleotides)

TGATTAAAT AATAGAGTTT AGTAATATGG ATGAATATAA GATAAATATT TAAAAAGCAG TTGTATTTT ATAGCCCAGC  
 AAGATAAAGT TCAATATGT ATTTTTTATA AAGATGGATT TACAATAACA TCAAAATTA AAATGCACCT TGAATAATA  
 AAGACATGTA AACCCTTTTA TGAGACAGA TTTTTTAANG CATTTTTAAA AATNCTTTTT CATTGACAAA TAATTATCCN  
 TATTINTGGG GTACACAGTA ATGTTTCAAT ACATATAATA AATAGTGATC AGATCAGAAT AATCAGCTTA TCCATCATTT  
 CAAACACTTA TCATTTCINT GTGTAGGGG CCATTCAACA TCCTGCTTCT GGCTA

SEQ ID NO:488: (Length of Sequence = 323 Nucleotides)

CACTGCAITA ATGATTGNT TAACAGTATA TAAACAAGGG CCATGGTTTT TTTTACTAAA GTAGGTCTGA AAGATCAATA  
 TAAATACTAA TGGGGGCAGG GAGGAGTGT TTATACCCCA AACTCCAATA TTCCAGCTCT GTGTCCCTGC CTATTATTAT  
 AATTGTGAAA AATCTTAACG ACGCAGTGAT TCGAGTTTC GTAACCTCAA TGATGTGTTA GAGGACAATG CATCTTGGTT  
 TGAAGAATTT GCTGTATCCG AAGGCCGGA AAGTACTCGA CCACGATGAT TAAATACATA AAAGGATGGG TGATTCCTTA  
 CCG

SEQ ID NO:489: (Length of Sequence = 326 Nucleotides)

TTACCTTTTA CTCGATCAT AATCTCCAC CTGTCTAAGA GGTTATTTAT TCCTTATTTA GAGGGCTCT ATTGCCATGT  
 GCTTGAATT ATTATATGCT CATCACTTA TGAAGAATAA AATTGTCTT TCCTGCTTTA AAGTTACATT CGTTCTCCG  
 CTCAAATCCT GATCTGGTCC ATTAAGAGT GTTCGCAGAC AAGTTTCTG AAAGATTAGA GAAGAATCCC CCCAAGATT  
 GCCCCAACAC TGAACACAG ACAAACACTA TTTTATTTAA ATAAGGNGAC AGCTTTCTAA AAGTATACAT TCCTCTAATA  
 AAAATA

SEQ ID NO:490: (Length of Sequence = 186 Nucleotides)

CTCAGATCCA TCAAGATGTG AAACCTCGAA GTTGGTGCA GAGAAGGTAC ATGGGTTTCC TTCTTTCTC ATCTGTATTC  
 CCTTTCTGC AATTATTTT TTTGCCACAT ACTAGCCAGC AAACCAGGCA CCTTTGCCAG AGCCATTAAG CTACAAAAAT  
 ACTTAATATT TTAATTTGAA CTCTGC

SEQ ID NO:491: (Length of Sequence = 347 Nucleotides)

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CCGTACTTGT TCGTCCCTCA TTCATTAAAT TATGATACTT GCCTGGCATC TTGCAGGTTT CTGATGCTGT TACCCAGTAA  
TAGACCAAGT GCAGACAGAA TTTCATTTCT GCTTTATTA GGCACAGTCT TGAGAAACCC ATTGGCTTCA CACACAATTA  
AATAATTINT GGCAACAAGC TACTATATTG GCTTGCATGT CACTTTCACC TCTCTGGGCA TTAGTTTINT CTAAATATTA  
TAAAGAAGG ACATGACTTT CTAAGGTTCC TTGCAGTAAT TATGCAGTTC TATTCTAATA GATGCTTAAG CATAAAACCC  
ATTTTAAATAC TGTCCCAAGG ATCCAGG

SEQ ID NO:492: (Length of Sequence = 320 Nucleotides)

GAATTTGGNT CCAAAGTTTG GACATTCAT TTCATTAAATA CGTCCCTTAA GTTATTTTAA ATCTGTATTT TCCTCTCCC  
TTTGTGTTC TTGTAAATCT CTTTTGCTG TTGTTTTGG TTAAGAAAC CATGTTTTTT TGTCTCTGTG AGTGGCTCT  
GTTCAGAAAT TTAATGATTT CATCTGCTGG TATCATTTAG CATGTTGCTC TGTCCGCGT AGTACTTTAA ACTAGACGTT  
AGATCTAGAG ATGTGATCTA CTTCGGTAGG ACTTTGTCAA GAATACTTGT AAGTAGGTAT TTAGGTACCA GGGGNCACAT

SEQ ID NO:493: (Length of Sequence = 339 Nucleotides)

TGCCAAGTTT GCTGGAACAT TATCAGATGG CTTAGGGAAG ACGATGGACA ATCGGCATCA GTCAGAGCGG GAGTACATCA  
GGTACCATGC AGCCACAAGT GGTGAACACC TTGTAGCGG CATCCATGGC CTGGCTCATG GTATCATTTG TGGACTGACC  
AGTGTATATA CTTCGACAGT GGAAGGTGTG AAAACAGAAG GGGGTGTGAG CGTTTTCATA TCTGGCCTTG GAAAAGGGCT  
TGTTGGCACT GTAACCAAGC CANTGGCAGG CGCCCTGGAT TTGTCATCAG AAACAGNCCA GCGGTGAGA GACACAGNCA  
CACTTCAGCG GCCCCAGG

SEQ ID NO:494: (Length of Sequence = 366 Nucleotides)

GTAGGCCTTT GGAAAGTAAT TAGGATTAGA TAAATCATC AGGGTGGGGC CACCATAATG GGGCTGGTGG CTTTATAAGA  
GGAAGAGAGA CCTGAGCTGA CACGATGTIN CTINCCCTCT TGCTATGTGG TGCCCTCAGC CATGTTAGGG CACAGCAAGA  
AGGCCCTCAC CAGATATTGG GGTGGTCTIN GACCTCCAC CCTCCAGAAC TGTAAGAAAT AGATTTTTTT ATATATTACC  
CAGTCTATGA TATTCTGTAA CGGNAACAGN AAACAGACTA AGACAAGCTT CTAAACAAA TTGANRATAG AGTTTAAAGA  
TNCAGACTTT CATGCTCTT AACAGGGGCC AAGAATATCT ATTCA

SEQ ID NO:495: (Length of Sequence = 384 Nucleotides)

CGAGGAAGGC AAGAAGCGCA GGGGTGGCC CGCTGGCGT CGGTGGCTC CGCTCCTGCT CGCAGCCCTT GTGGTCAGAG  
CTGGATACAA GATTCAAGAC CCTTCINTT CTGTINACCC GCTCCAGGTT GGAGCCACAG ACACCCACCG CCACCCCGC  
TGGGTCTGCT TCCTTTCCIG TGCCCTTCCC TCCAGAATGC GGCTCAGAC CTAGAAGCTC AACCCCTTA TGAGGGCCAC  
GTCCTGGGGT AGCTCCTGAC CTNCGACCTT ATGTCCAAAT TTCACACCA TGGTTTTTCA TTGACCCCG CCCCTTCTCG  
CTCATAATGA CACNAGCTT CCTTTGAGAG GGATCAGAGN CCAATTGCAC AAGGAGGAGC CGCT

SEQ ID NO:496: (Length of Sequence = 342 Nucleotides)

TACCTTAGTA AATGCAATTT TCGAACAGGC CCCATCTTC AACTGGTATA GCATCTTCCA CACCCTGTAG CCTTCAAACA  
TCACCTGTAA AAATACTGCC CATTCATGT CATGTATATC TGCCCATTTA TGGGAGCAGT GAGTGGAAAC CTGACAGTGA  
CGGACTTTAA GCTGTACTTC AAAAATGTG AGAGGGACCC GCATTTTATC CTGTATGTTT CCTTGGAGT GATCAGCAGA  
GTGGAGAAGA TTGTGNCAC AGAGCCATGG AGACAATTC TTGTGGTATAG AGATAGTGT CAAGGATATG AGGAACCTGC  
GGCTTGCTTA TAAACAGGA AG

SEQ ID NO:497: (Length of Sequence = 273 Nucleotides)

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GATTTATTAA GTATCCCCGA AAATATAAAC ACAAACCACT AAAAAACAAA ACCGTAAAAC GTCAGGCCTG GAGCTGCAAT  
 AAGACAGAGA CAGGAGCAGC TCACACGTGG CCTAGGTGGG GAGGACGAGG CCATAAATAC TGCAGGAGGG CGGCAAGGGA  
 GCCCTAGGGC GAGGGGAAAG CAGGGTGTGG GCAGCGAGAT GGTTCNNGG GTTTAGACAC TGCTGGCTTC GGNCCCGGCC  
 GGCACCANGA CTCTCACTTC CAGCTGCGAG CAG

SEQ ID NO:498: (Length of Sequence = 319 Nucleotides)

ATTCCCAAAA ATAGAGTCTG GACCTCTTAC CGCTACAAAT TCCAGGTTCT CAGGTACAGC CTGAGAGTAT GCAGATATAA  
 TACACCACAG ATGATTCTCT CCTTTTITG TTTTTTTTTT TTTTTTTTTT TTTTGGAGACA GAATCTCATT CTGTACCCCA  
 GGTGGAGTG CAGTGGGCTG ATCTCGGCTC ANTACTTCTC CCGCTCCNG GNTCAAGCA ATTCTCTGC CTNAGCCTCC  
 CGAGTAGCTG GGNCTACAGG NGCACACCAC CATGCCCATC CAATTTTTTG ATTTTAAGTA TAGTTGGGT TTCACCATT

SEQ ID NO:499: (Length of Sequence = 408 Nucleotides)

GAGAAATACC TAATGTGAAT GACGAGTTGA TGGGTGCAGC ACACCAACAT GGCACATGTA TACCTATGTA ACAAACCTGC  
 ACATTGTGAC ATGTACTCTA GAACITAAAG TATAATAATA AAAAAAGAGA ACCTTTAAAA AAAAATAGAC TGCCAGATAG  
 ACTAATAAAT AAAAAAGAGA GGTGAAATA ATCATAAATG ACTAAGGGGA TGTTACCCCA CAGAACTACA AAAACAAAC  
 AAAAAACCT CAGAGACTAC TAAACACTC CTATGCACAC AAAGTAGAAA ACCTAGAAGA AATGGGTAAA TTTCTGGAAA  
 CATAACCCA CCGAAGATTG AACCAGGGAG AGATTAAAGC CCTGAACAGA CTAATAATGG NGTTTCAAAA ATTGAATCAG  
 TAATAAAA

SEQ ID NO:500: (Length of Sequence = 474 Nucleotides)

TTTTATTTTT TTCACTGTTA CTGTTTTTNA TCTTTGATTG ATAAAAATGA AAATGCCAAA ATGAGGGTTA GCTTAATTTA  
 AAGTATAAGC GTAGTTAGCA GCTTTTNTA ATCACTCTG TCATTTTAAA AAATAATCCT CATAGGAGTA TAAACAGAGG  
 AAGGAGAAAT GGAGGATGGG CTTAAGAGAA AGAGTATTC ACAAATGCT GCATAGCAAA TTCAATTCAT CTACCTAGTA  
 GCTCCTCCG TGTTAACCTA CAGGTGTTCT CCCCTCCAAA AAAAGCATC TTTTAGGAAG AAACCACTT AACACTACCT  
 TTAGANGATT GAACITCCAG GGATAGGTTG TTTGAGAGAA TCACCAAAAG CCATTTTTTA ATGAATTTTT AAATTACGGC  
 TTTCTCATTC CTTATAATAG TGTAGCAGCC ACCTCCCTC TACTATGGAA CTTTAAACCA ATAATCCAAG TCCT

SEQ ID NO:501: (Length of Sequence = 378 Nucleotides)

GTTGTGGCGG GCGCTGACC TCGTGATCG CCGCTCAG CCTCCCAAAG TGTTGGGATT ACAGGCGTGA GCACCGCACC  
 CGGCCCTGT GTACATTTTT ATAAGAGAAT TTTTTTAGCT AGGAGTTCAG AATTTTTAAA GTACCATTG AATGATCTTA  
 ATTTTNCITTT CATGACAACA CATTCCAAA TGAATCATGC TTATGTACTA AGAGGGAAAA TGTATTTAAG NTAAGGGTGA  
 GAGACTTAAG TTATAGGTGA CCTTAGAGAC CTAAGGTGAG AGACTTGACA CATGGAAGGA GTAACATTAG GGTCTACCTC  
 TACCTCAATT TAGTTAGCGA TTTACTACAA TTTAGAGCT AACAAAAGTA AAAATAAA

SEQ ID NO:502: (Length of Sequence = 448 Nucleotides)

TTTTGGAGAT GGAGTCTTGC TCTGTGCCC AGGCTGGAGT TCAATGGCAC AAATCGGCT CACTGCAACC TCGCCTCCC  
 AGGTTCAAGC AATTTTCTG CCTCAGCTC CCGAGTAGT GGAATTACAG GCACACGCCA CCATGCCAG CTAATTTTTG  
 TATTTTAGTA GAGACGGGG TTTCAACATG TTGGCCAGC TGGTCTCAA CTCTGAACT CAGGTGATCC ACTCCCTCGG  
 CCTCCCAAAG GGTGGGATT GCAGGCGTGA GCACACGNC CAGCCATGAT CTTAAACTT GTTTAAGAG GTATAATAAC  
 TGGAAATCAT GATGCTCTTT AAGGAATACC AATTGGATG ATTATTGATG TATTTAATC CATCCATATG NAGTAGAAAC  
 AGTTTTCAIT AGCAGAAGGC AATTATATTA TAGCTACACA ATATAAG

SEQ ID NO:503: (Length of Sequence = 446 Nucleotides)

CTACAGTACC CATCTCCATT TTCAGAGAGC TCCGATGGAA ATTTCTATGA ACTAATTCTC CTGCACATAC TTGTTACAA  
GTGGGCTACT GGAGCCACCT TCCTTCGTTC AATCAAACAG CATTATTCA GCTTATTAA TGAACACTAT CCAAGATACT  
TGGGGGACAG AAATGAAAAG ATGGGGAGAC CTGTCAAACA TATGGTACTA TGTCTATGCA AAATAACATT GGAATGTAGA  
TTCACAGTGG AAGGCAGGGC AGGCATGGAA GAATCTGAG AATGAGTGTG ACAGCTCCTA CCTGTAAACG CTCTTCAAGC  
TCCTGCTGGA AGCGGTCACT CAGCAAATCT ACTAGCTGGC TGGGGGCAA AGTCCGCCCG GCTGGAGGAA AGTGAATTCC  
GGGATTTACA GAGCAGGTAG AGGGCATGCG GCCCAGCCCT CAAGCA

SEQ ID NO:504: (Length of Sequence = 248 Nucleotides)

TTGCTCTTCT TTTCTACCAT GGAACGTCC TTCTCAGGGG ATTTINAGGT CTGGTGTGTT CTGTGTTTCT NAATAGGCAG  
TTTCTGCTG TOGGCTAAGG GCTTATCCAG GNCATATCC AGAGCCCTGT AGGGGTCTGT GGGGTCTTTG TCATCCCTGT  
CGCTGGGCAG AGCATCTCA GGCATCTCT CTGTACGAT GTCCACCTGC TGGGCAAGGG CGATGTCTTC GTGCTCTCC  
GTGGGCAA

SEQ ID NO:505: (Length of Sequence = 367 Nucleotides)

GCTATGTTGC CCAGGCTGTT CTCAAACCTT TGAGCTCAAG CAGTCTCTC ACCGTCTCC CAAAGTCTG GGAATACAGG  
CATGAGCGAC TGTCCTGGGCT TTAATAAATT TTAAGAGATT TGTGTGAAC CATCTGCTGA TCATGGAGCA GCAGAGAAAT  
TTATGACAG ATTTCTTAGG GTACACTCTG ATGACAACT GTGTCAGAA CAAGCCTGTA ATGCTGATGA AACATCACTG  
TTCTGGCAAT ATTGCTCCAG AAAGATACTG ACTACAGCTG ATGCAAAGGC CCTGTAGGC AGTAAGGATG CCAAGGACAG  
AATAACTGTT CTGGAATGTG CTAATAATGC AGCAGGCATT CAATAAG

SEQ ID NO:506: (Length of Sequence = 419 Nucleotides)

ACACCTGGTG ACTTTAGCTA TGCTATCAA AAGCCTGAGG AAACAACCAG GTCCCAGAT GAAGAAGATT ATGACTATGA  
GTCTATGAG AAGAACACCC GGACCTCAGA TGTGGGTGGC TATTACTATG AGAAGATAGA GAGAACCACA AAATCTCCAA  
GTGACAGTGG CTACTCTAT GAGACCATG GGAAGACTAC CAAGACCCCT GAAGATGGTG ACTATTCTTA TGAAATTAAT  
GAGAAGACCA CACGACCCC TGAAGAGGGT GGGTACTCAT ATGACATAAG TGAAAGACC ACCAGCCCC COGAAGTGAG  
TGGTTACAGC TATGAAAAGA CTGAGAGGTC TAGAAGGCTT CTGGGATGAC ATCAGCAATG GCTATGGATG GACTCTAAGG  
ATGGTTGGCC ACACAATT

SEQ ID NO:507: (Length of Sequence = 417 Nucleotides)

GAAAACATAT TTAATAAAA AATATCTAT TACTTCAATG TCATGTCTGT TGAACGAGGA ACTCAACATG CTTATTINCC  
TTTGGTTCCA AGAAAAACC AAGTCTAACC AAATGTATGC CACAAGGAAC TGCCAACCTG GTTAAAGCTT GGTATTTTCC  
TGGTTATCAC CCTATTCTCT GGTGTAGGAC CTGGGGTTTA ATAGAGACAT TTACATAAAA AAGGTATTG GTTAAACAA  
GAAATATGA TGCNCTTCT TACCACCTC CTGGGAAGA ACTGCTTTT TTNCTTTCT TCTGTGAATC TTGTTCAAGA  
CATCTGTAG TTTAGATATA TGGGCTGCTT CTTTTTACC CTCAAGCTT TAGGTGACAC TTATAAGGT GAGCATATCA  
TTCTATAAAA TGAAGA

SEQ ID NO:508: (Length of Sequence = 308 Nucleotides)

CTGTTTAGAA AAAAAAGTGC AGCTCAGTGT CAGCACTCAT TGAATTTGTC ATAAACATGC TTTTGGAGC TGAAGCAAAT  
CTGACTGATT TTCAATGTGA AAATAAATA TAAANCTGT TTTTGAAGTT ATTTATTAAC AGAACTAACA TCAGAATTAT  
TTGAATCACC AGAATAATCA ATTCTGGAAA AATCAGATTC ATCAGATTAA TCITTGGCCA ACAACTGTTC AAGAACAATG  
TTAACAATCT CATGGCAATG CTACATTINC TAGGATTGA CATTTTACG AATTGAGGAA TTACTATA

SEQ ID NO:509: (Length of Sequence = 370 Nucleotides)

TTTTTGAGAC GGAGTTTCAC TCTGTGTGCC CAGGCTGGAG TGCAATGGCA TGATCTCGGC TCACCGCAAC CTCGCGCTCC  
CGGGTTCAAG CGATTCTCCT GCTCAGCCT CCCAAGTAGC TGGGATTACA GGCAAGCGCC ACCACGCGTG GCTGATTTTN  
TATTTTGTAGT AGACACGGGT TTTCACCATG TTGGTCAGGC TGGTCTCAAA CTCGCGACCT CAAGTAGTCT GCTGCGCTCA  
ACCTCCCAAA GTGCTGGGAT TACAGGCGTG AGCACTTGGC CTTGGCGGTG ACTGATTTTT TTTCATGTAG AATTGTCAAC  
ACGAGAGATC ACAAGTGGAG CACTTTGAAA GACCGTGGT TGTGTGCACG

SEQ ID NO:510: (Length of Sequence = 446 Nucleotides)

TCITTCCTCT TACTTCCCTT CCTCCCTCC TTTCATATGA GAGACTCTAT ATGGAAAAGG AAGCTGAAGT GGCTGCACA  
CGATATAGAA AAGCCATATT ACTTTCCTAA GACTGGTAAT CCGGCAATAC CTAATGCAGC ACATGGCTAG AGACTCCACA  
TTTGCCCAAC TTCTCTGCTC ATCATTGGCC ACTGTCTGT AAATTTCCTA GTCCCTCCAC AGAAAGCACA TGGCACCATT  
TAAATGGCT GCTCACTCTC TAAGGGAGGT CTCACAGGCT GGTAGTGAGC CTTGTCCAA TAGTGAAGTT CTCACAAAT  
GGGAGACTT CTCCAGGAG GAGGGGAGGC CTGGAGATGG GCATGCAGTG GGCAATGTCA GCTGCCCTCC AGGTCTTGC  
TTGCCCTTTT TCCGCCCTGG GTCAGTATAC AAGCTTTCGG GGGACA

SEQ ID NO:511: (Length of Sequence = 354 Nucleotides)

AATACCAAC TGAACAAACC TGCTCTTTC TGGTAAAAC AAAAAAAAAA AAACAAAAC AAACAAACA AAAAAATCAC  
ACAGTTAAT AAAGANGCAA CTCTTCCTT TTAGNGCAA GGACTACCA TCTAATTCCT ATCTATTGAG CCCCCAAAG  
CTCCCTCAG AGTCTTCTT CTCTTATCA ACAGAAAAGT CTAGAATGAN TATTCACAGT TTCTAAGAA AACCAGAAAG  
CCTTTAAGCA GCATTAGCTG GNCATATTTC TGTTTCCTAT AGTTACCATA GATGAGTACA GCTTTACACT AGGGGGCTGG  
GAGTTCAGAC TCACAGCAGA GACTNCTGGG GTAG

SEQ ID NO:512: (Length of Sequence = 374 Nucleotides)

CATGTATATT ACAAAGAGT TCCTGTACCA AAGTCTTAT TAGACTTTAT TTTTGTTTTT TTAATTTTAA AAATTTTTTT  
TGTTTTTATT TTTATTTTTT AAATTNCTC TCCTGTGGT GACTGTCTAT TGATTGTCTC AGTTTCTGGA CCAACAAAC  
ACACTAATAA TTTTAAATCT GAAACAGTGA TTGTCCCTTT NGGCTCATGT ATGTACAGGG TGATCAGAAG TGGTACCTGT  
TAGCAAAAGT GTCACGATGC TGCACTCTA CCGAACTGA TACCCAGAA CTACGGAATC TAAACAGACT ACACCTGTGA  
ACTGCGTATT ACTGTCCACA ATGGGGATCT CCAAGACAA AAGAGGTATG GAAA

SEQ ID NO:513: (Length of Sequence = 463 Nucleotides)

ATCAGCAGAT TTNCTCTGG TGAATGTCTA ATCAGTGTA TTCCATAGG CTATACTTAC CTTTGGGGG CTACTTGCCA  
ATNATGTTTG GTCAGTATCC TTGCAACAA CAGAGTGACA GATTCTAAA ATGACTTTGC AGGCCAGTAC TAAGAAAGAC  
ACCAAGGTTT ATGGGCTTG CAAATAAAAG TCCATAACTT CCTGCCCTA CTTACCAAG TGAAATCGAG TTCTTCACAC  
TTCTGCACAC AGCTCTTCA GATCTTCCC TTCCCTCAA GGCTGTCTGA TGTTCAAGTT AATTGATTG TATTTGTATA  
AAGTGCTGAG TGTGAGTCC TCAAGAAAT TTACTTTCAG TCTAANGCCC CCTTGGGACA AGAAAGTGGC AACCAGGCAA  
ATGATTGATT ACTTATTGT TTGAGTATCA CTTTGTGATT GTCCAGGGC TGTATTACAC ATA

SEQ ID NO:514: (Length of Sequence = 396 Nucleotides)

CCAACCCAGA AAAGTTTCC TGGCTCTCTA CTAACAGTAA AATGTGCTGA GCCCAATTT TCTGCTCTAA CATGGGTCCC  
ACGGACCTAT CAGTCTGCTC TGGGGTCTG ACCTGCTGGG TCCTGAGCAG GGTCTTCCC TAAGCATCAC TGTGGGTTTG  
GAGACAGCTG TAATGTGTC AGCTGTCAGC AGAAAGTACA ATGCCACTGG GCTACATATG TCATATCAT CCACCACCAT



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TTCCACTGT AAAACCAAAG GCTGCAACTG TGAACAAATG TGGACTTCCT CAAAGGACAA ATGAGGAGAC TGAAGGCTAC  
ATTTCCTCCT TTGAGAACCC ATTAGAGAGT GTCTACAGTT ATACAACAGG TTTCTGCAAG ACCCTGTGGG TAACIT

SEQ ID NO:515: (Length of Sequence = 416 Nucleotides)

ACAAAACAAA AAGTAGTAGC ATCTCTGTGA GAGGTACACA GTTAGAAAAA TGATTCCACA CACGAGTAAA GAGATTTACC  
AGGAAGAGTC TTGTTTCTTA AAAGTTGATA CAACTAGTAG AAAATACTT GTCAGTGGTA AATAGAGCAG AAGTAGAAAA  
AGCAGTTAAT CTATTAGATC AGATCAGAGT GTAAGGCAGG TATATCAGGC CAAAGGTGAT AAGACAGAGC AGAAATAAAG  
TATGTTAAT TCATGCATTT NCTGACTCAT TTATTTATAC ATTGATACTG TCACTTATAA ATCAAATCTT ACAGGTGAGG  
TTCGTGCTA AGCTCAGGGG NTATAAAANG AAATANGTCA CTGCACTCGC CCTCACGGGG GCCCACCAGT ATAAGTGGT  
AGATAGTTCT ATAAAG

SEQ ID NO:516: (Length of Sequence = 368 Nucleotides)

CCCATGGAGC TCGAGAACAT CGTAGCGAAC ACGGTGCTAC TCAAGGCCCG GGAAGGTGGC GGTGGAAATC GCAAAGGCAA  
AAGCAAGAAA TGGCGGCAGA TGCTCCAGTT CCTCACATC AGCCAGTGGG AAGAGCTGGG GCTCAGCCTC GAGCGTGACT  
ATCACAGCCT GTGCGAGCGG CACCCATGGG GCGCCTGCTG TCCGAGAGT TCCTTGCCAC GAGGCGGAG CTAAGCCGCT  
GGTGGCCTT CCTGGATGGG GTGGCGAGT ATGAAGTGAC CCGGATNAC AAGCGGAAGG CATGTGGGGG GCANTAACCG  
CAGAATTTT TNAGNCACAN GGGTCTGAC CTCATCCCTG AGGTCC

SEQ ID NO:517: (Length of Sequence = 393 Nucleotides)

CCCAGCGCCT GGAGAGCCAG CCCTGCAGGG TGGGCTGGGC GAGCCAACT GCGTTCCTGG TGCAGGGCTT CGGGTCTCCC  
TAACAGACCT TATAGCTGA CCGCGGCGG CCTATGGAGT GTCTCTTTCG TCAGACATCC AGGGAGGACC ACATTGCTCC  
AACAGCGGTC GCTCCACCAA TCCTGGGAGA AGCGAATGT TTTCTCGCG TGCCTGTCA GCGCTCATG GTGCCAGAG  
AGGAATTTTA GTGGCAGCAT TCCGGCTGTC AGNCACCGA AATTNCCAGG CCACTCCAAG TCAGAAGGGA CCACCAGGAA  
AAGTCAGGAA GAGAACCACC ATCAAGGTCC CAGGCTCTTT TTTGTGACA AGGACTTAGA GGGGTTTGGG TCT

SEQ ID NO:518: (Length of Sequence = 465 Nucleotides)

CCTTCTCTGC AGATAGAAGA GCCAGAATGG GAAAAGCGAA GATCCATCA CCTGTCTGAG CTCATTGATG TTTACAGTGA  
TGGTGTGAA CTAATCCAGA TGGTGAAGGC ACCAGATTCC AACTGCAGCA ACCTTCTGAT TACAACCAGA CAAAGCCTTG  
TNTGCTTCG GGGGCAAAAT CTGACACCTT ACTGGGCATT GAGACTTCAA GGCTGCGCA GCAGCCTACT CCTGGATATT  
TCACTGATGA TCAGACATTA GACTTCCTTC TGCAGATACA GGATGGAGTT GGGATGAAAA AGATGATGGT TGTGGATGGT  
GACTCTGGGC TCATATGTTT GGAGTTACCG TGCTCGTTG TCACATGAAA GAAAACGGCC AGCCACCTCA GCAGTTACTT  
TCAGACCAGA AGTCGTCTT TCCTCTCTG GGGCCGAAGG CTGTGAGT TGCATCTTC CAAT

SEQ ID NO:519: (Length of Sequence = 382 Nucleotides)

GGCGTGGT AACAGAAAAC TCAGTGCATA CTTTGCCTT GTTAGGTGT CAATATAGTC TTTCTGTAGG ATGGATAGCA  
TGTTTGAGAG GTGCCAAACA AGAATTTTG GGGTTAGTAG TGTGTCTGT GGAGGGTATT ACAGGACTGT GTAATTATAG  
GACTCTAAT TGACATGGCT TGGCACCCAC TTGCAGTAG TGGGTACAGG GTACAAAAGA TGTAGAGAA AAGCTCTACA  
GATTACGTAC TTTGTGTCT TCGTATGCT AACACTGTCC TTTGTCTC CATGAAAGAT GAAGGAAGCA AATTTATGTA  
TGTCCTTCT TTGACCTTCT TTAATCTCT GATACTTTT AGATTGCATG ATTTTACTAG GC

SEQ ID NO:520: (Length of Sequence = 304 Nucleotides)

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CCAAGACTGC TGATCTCTAA ACAAGCATCA AAACCCGAAG CTCATTAAACA TCAGAGTGAG CTTCAATAAG GTGANCACCTA  
CAATGATGTA CAATTACATC CTAATANTTC ANTGCCCAAG AGCCCTGTAG AACTATTGCA AGGCCCAGGN TTATCACAGT  
ATGCAAATGC ACTAGGAAAA TCATTACCTA TTTAGTCCCC TTTATTITGG TGGGTTTAAC ATGAGAAGAG TAATCCATGC  
TACRAGACGA GATTTTCATTT TACAGCTGTA GTAGCCAAGT GCATAAAAGC TTGANTCTGT CCCA

SEQ ID NO:521: (Length of Sequence = 360 Nucleotides)

TTGAGACGGA GCTTTCCCTG TCACCCATGC TGGAGTGCAG TGGCGCTATC TCAGCTCACT ACAACCTCCA CCTCCCAGGT  
CCAAGTGATT CTCCCGCTC AGCCTCCCAA GCAGCTGGGA TTACAGGCGT GAGTCACCTG CCTCAGCCTC CCACAGTGCT  
GGGATTACAG GTGTGAGCCA CTGCGCCAGG CCTCCCAAGG TGTTGGGATT ACAGGCGTGA GCACCGCTCC GGGCCTCCCA  
CAGTGCTAGG ATTACAGGTG TCAGCTGCTG CACCTGGCAA TTTTITGATA TTAGGTCCCC TGAAGTCCAA AAAGAGATAT  
ATGGCTTATT TGGTATAATG AATCATAA GGAAGGCATT

SEQ ID NO:522: (Length of Sequence = 287 Nucleotides)

TTGAGGAAGT TCTGTTGCTG GTGAGGAAAT TCINTTGAGT TCTGTAGGAA TTTTATAGC TTGTTTGCA TTCAGTTCTA  
TCAACAAGCC AGCAGCAACT CAAAGGGAAG CCTCCTNCTG GCATATCAAT CACACAGGCA CATAGGATCA TATAGCATAT  
AGGATCAGTC CCAAGAAGAA CTATNGGGIN GGGGAGAGGT TTTTCTTCCA CTTCTTGGN TTCAGTGACT TTGAGATGGA  
CCTCTTTTT CCNNTGGACA AAATGTCATC ACACCAACAT CTTATTG

SEQ ID NO:523: (Length of Sequence = 318 Nucleotides)

CCTTGTCCT ACTAAAAATA CAAAAATTAG CCGGGCATGG TGTCACGTGT CTGINATCCC AGCTACTCGG GAGGCTGAGG  
CAGAAAAATT GCTTGAACCT GGGAGGCAGA GGTTCAGAC AGCTGAGATC ACTCCATTGC ACTCCAGCCT GGGCAACAAG  
AGCAAACTT TGTCTACAAG TCCTCTACG CTGACAGGTC CTCCTCACC TGAATCTTT ACGCCAGCAG CGTCTCTTCA  
CTGACGINCT TCINCATGCC GGAAATAGGA CCTTCCTTG CCANCGGCA GTGCTGGCTG CATGCAGTCG TTACTTTT

SEQ ID NO:524: (Length of Sequence = 238 Nucleotides)

ATCTCATTGG AGCCAGGGTT CCAGTTCTCA TGCAAGTCGG CCACAGGAGC CACGGAACCG CAGTAGGATT TCTACTGTTA  
TACAGCCCTT GAGGCAGAAT GCAGCAGAAG TTGTGGACCT TACCGTGTAT GAAGATGGTA AATTGAAGTA GTAACAGTAG  
AAAATTATGA AAGGAGTTTG ATAAAAGGAA ATCTCTTAAT ATGCTAGAAA CTCCTCCTGC TTACTGGTAA TATATTAT

SEQ ID NO:525: (Length of Sequence = 168 Nucleotides)

CCAATGAGTG TGGACCTTAA ATTAAACAG CTAAAGCTAT AGTCTAAGGA CAGTCTCAA TAAATACCTT TGAATTGTCA  
TATGTGCCC AGGAGGGTCT TGTTGAAAGG GTTTCATGGT AGTGAAAGAT GTAATANCTC TTTTTCCTT TTAACCTTAA  
GCCTGTCC

SEQ ID NO:526: (Length of Sequence = 387 Nucleotides)

GGAGGTCACA CGGTGAAACA GACACAGTTA TATACAACAG GGCAGGTTTT TAAAAAGAGT TGCTCTCAGA CGCATTTTTC  
CTGCTCCCTA AAAAGCCGAG GAAGATACTG GNTCCACAGA AAGAAAAGGC AATGCCGTAA CATGAGGCCC TCATGGCCGC  
ACCGTCCAGG GGAAGGGCTG TTAAAAACAC AAGTATTCTT GTGAAATACT TCGATCTGAG CATTAAGGCA GGTCTGCAGG  
AGATCCGTCC TGGGGACTCG GACAGCAACG CTACCGGCTC CGAGAGGACA GTTAAATGTC GCCTCCCGGC AAGAGGGGCG  
GAGAGATCAG ACAAGGAGTT GTTCTGAGT TNAACCTGC TACAACAGCA AACTCCAATA AACTCAA

SEQ ID NO:527: (Length of Sequence = 336 Nucleotides)

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TTTGCAGTTT TACATTCCCC TAGTACATCC CTGCTTACTC GGGAGCACAA AGCTTGGTTG TAAGAAATTG TGATTTGGA  
GTAGAGAAAA GCAAGGAAGT CCAACCTCAG GAGTGTCTCT GTTACTAAGA GGAGAGTGAG ATCCAGGGTG TGGGAGATGA  
TCTGAAGGTC TATGGGTGGG GAGTGCCACA GGAAGAAGGG TTCTGGTCCG AGTTAAAGGA GGATATATCT ATATNCTGGG  
AGATGAGCTG AATTGAGAAC ACATGGAATG GGAACAATTC TCCCATACT GCGTTAAGC CAAATTAGGC TGGCATCCCC  
CACCACGGCC AACTAA

SEQ ID NO:528: (Length of Sequence = 482 Nucleotides)

TTTACTCTA GCGTGAGGAG GGGGCTCCT AAGGAAAGTC ATGCTGGGTA AACTGTGCGA TGTTACAGAG CACATTGAGT  
CTGTGGTCAT CGTGGTCTT CTATCTTCAC TGTCACCTGT ATCTGTATAC ACATACTCAG TTCTTAATTG TAAGCTCAAT  
TTTGGTATTA GCAAAAGCAT CTGTAGTTT TTCTCAATT ACTCACCT CTCTTGCTT AAATAAAACA AAGAAACAA  
GAAACAAGT GTGGTGTCT TACAGTCTC GGGAGTCTT CGTCACTGAC TTATATATA TANAANAAG AATGCACATG  
CGGCCCAGT TCACAGATAG ACAGATTCAC CCGAAATGA GGAATGAGG GCGTTAAAG CTGCCANAA NCAAAATGGG  
GTGAAATTA GCAACGTTG TTTCCGGTC AATTNCCAAT TGTGACTGG CTGCGTTGAG ACAAGNCCAT CTTCCAATTT  
CC

SEQ ID NO:529: (Length of Sequence = 412 Nucleotides)

CTCTCAGACA GTATCTCCT CGAAGCAGGA ATCTAGTAA ATCTCATCTG CGCATGCGA TTCTAGTGC AGAGAGGGGA  
CCTGGGTAT TAGAAGTCC TTCAATATT AACTTCACTG CAGATCGATT AATTAATGGT GTCCGGAGTC CACAAACAAG  
GCAAGCAGT CAACTAGAA CACGATTCA AAACCTTCA GCATATGCCA AGAGAGAGGC TGGGCTGGG CGTGTGGAGC  
CAGGCAGTCT CGAATCCTCT CCTGGTTAG GGAGGGGAAG GAAGAATTC TTGGCTACC GGAAGAAAAG GGAGGAGAAG  
TTTACAAGCA GCCAGACACA GTCTINCAAC GNCACCAAAG CCTCCGTCCG CAAGCTTTG AGCTGGGGGC TTTTCCAGCT  
TTCCCTCCAT TA

SEQ ID NO:530: (Length of Sequence = 301 Nucleotides)

ACTTTTAAAT AATAGTCATT TAAAGTGGT GAGATAATAT CTCATTGTTG TTTNATTTG CATTTCTCTG ATGCTTAGTG  
GTGTGAGCA TTGTGCATA TAACINCIGG CCATTGTAT GTCTTTTTT TTTTTTTTT TTTTTTTGA GATGGAGTCT  
CACTTTGTCA CCCAGGCTGG AGTGAGTGG CGCAATCTTG GCTTACTGCA ACCTCCACTT TCTGGGTCA AGTGATTCTC  
CTGCTCAGC CTCCAAGTA GCTGGGATTA CAGNGCCCA CCACCAGCC CAGCTAATTT T

SEQ ID NO:531: (Length of Sequence = 312 Nucleotides)

CAGATGAGAC CAGGCTTGA CAGTGGGGC AAGTCTACC AACCTGCACA GCATATCCAG CAGGNCAACT GTGGCTCAGC  
AGGTGCCAAA TGGAGCCCAT GGGCAGAAGA TGCCACAGC GTTCAGATG TGTGTGGTCT GAGAGATAAA AGGACACAGA  
ACAAGATGAC TGTGCAATA GCCAAGTGGT GGCAGAAGTT CTGCAATTC AAGAGATGAT CCACTCAATA ATTGACGAT  
ACTAGTTGGC CAACATGCTC AGAGAAAACA GNCITATCCA CATCTGAGC CTCATTCTCT CTCAGGATCA TT

SEQ ID NO:532: (Length of Sequence = 313 Nucleotides)

GCACAATCT CGACCTTGG GAGCAGCCAG GGAGGAGTCA CTGTCCAGC CCCCTGGCT AGGCACAAAG GGGTGGGAGA  
GACAGCTGGG CCAATATGGT CTATTACGC CTGAAACCCC GCGAACCAC CCTTAACTCT GCCTTCAGGC ATATCCCCC  
ACGTCCATGT CCAGGAGCCC CCTACTGTC CTGGTCATCT GTGGCCGGG GAATAATGA GGAGATGGT TGGTCTGTG  
TOGACACCTC AACTCTTTG TGAGTATGT GGGAGGGCT GTGGGGAGG AGGGCGTTC GGTCTGGGA TCT

SEQ ID NO:533: (Length of Sequence = 376 Nucleotides)

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GTAATTCCAT GTGGCTGACT GGGTAACAGA TTGAAGGGT ATCAGAGACC TTCAATGTTGT AGCTCATCGC AGTGTATTGT  
 TTGTTGCTTG TCTCTGTC TCCTTGTAATT GCCATCCTCA AGGGCAAAGA CTGCATCTTT GTATTCCCAG CTCTAGGCC  
 TGAGTCAGGC ACATAGTAGG AATTCAGAAA GTATGTTTIG GATGTAACAT TCCTCCTTTT TCCTGGACAA AATGGCCTTT  
 TGCCGGTGC ATTGTCCTTT CCATAGAGGA GGGGTGGGG CAGGATTGTA AGATGACTGT GTTTGAATCT TCAGTTAGCT  
 AAGACAAGGA TACGTTTTT CCATGGTGCA AATCTAAAGG GTTCTAGTGA GGTGGTTC

SEQ ID NO:534: (Length of Sequence = 374 Nucleotides)

TTTTTTTTT GTCCAAGGT TATCAAATTA ATGATTGTTG GGGGGCAAGA TAAAAATTT NATTTGATTA ACTTCTCTA  
 TTGGTTTTTG TTTCAATTT CATTTATTC TTCTTTTATC TTTATAATGT NCTTACATCT GCTTGGTTTG GGCTGGGCAC  
 AGGGGCTCAT GCCTGTAATC CCAGTACTTT GGGAGGCCAA GGTGGGCAGA TCCTTGAGA CCAGGAGTTT GAGACCAGCC  
 TGGCCAACAT GGCAGAACCC CGTCTCTGCT AGAAATATAG AAATTGGCCA GGTGTGGTGG CCAGCACCTG TGATCTAGC  
 TACTCGAGAG GCTGAGGCAG GAGAAATGGC TGAACCCGGG AGGGCAGAGC TTGC

SEQ ID NO:535: (Length of Sequence = 433 Nucleotides)

TGCCGACTGA TTCCAAGTCC CCAGGAGGGC TGTGAATGCT AATAGATATT TGGGGTTTAT CTACATGGAT AAATCAGAAT  
 TGTTAACATT ATTTATAAG ATAATACTTA CATAATTTN AAATTCACAA AGATTGTTTG GCTTAATGAT TTCTAAATGT  
 ATGCAATATA ACATTAGGCG GCTTTTATTA ATTCTATTTA TGTAAATGAA AAGCTCAATT CAGCAAAAAA CAGATCTGAT  
 GGGATTGTTG TATTTCTTAC CTGATCAGAA CAAAGCCTTA CTTTACATTC CTGACTACCG ATTGGCTGAG GGATTGTCTA  
 ATAGAATGGA GCTTTCTTTT GAGCGGTATC CATGTGTACA AAATTGGGCT GCTTACCTG TGACCCACGG ATTGCTGGAG  
 GAGCTTGAA ATGTAGTCAG CCGTTCTTT TGG

SEQ ID NO:536: (Length of Sequence = 438 Nucleotides)

GATGAATTAA GAGGGAAT TATAAGTAA AATCTTTAGC GCTGTTGATC AAAGAGTTCC AGGCCGGCG TGGTGGCTCA  
 TGCTGTAAAT CCCAGCACTT TGGGAGGCTG AGGTGGGCAG ATCAGGAGGT CAGGAGATCA AGACCATCCT AACACGGTGA  
 AACCCCATCT CTACTAAAAA TACAAAAAT TAGCCGGCA TGGTGGCAGG TGCTGTAGT CCCAGCTATT TGGGAGGCTG  
 AGGCAGAAGA GGAATTCCTG CAGCCCGGG GATCCACTAG TTCTAGAGCG GCGCCACCG CGGTGGAGC TCCAGCTTTT  
 TGTGTCCTT TAGTGAGGT TAATTCGAG CTGCGTAA ATCATGGGTC ATAGCTGTTT TCCTGTGTGA AATTGTTATC  
 CGNTCACAAT TCCACACAAC ATACGAGCCG GAAAGCAT

SEQ ID NO:537: (Length of Sequence = 316 Nucleotides)

TAGTAGCACT AAAGCCCCGT TTTGGTCACA CTCTCACCTA GGTGAGAACC TGACCAAAAA TGTGGAATTA TTAACAAAA  
 TGATGGGAAG CCAATGINCT GAACTGAGC TCTTGACTA GGCCCCACA GACCAAAATTA AAATGGAGTC ACTAGTGCTA  
 AATGCTTTGG AGTCAACAG AAATGTTAAA GAAGATAGAT CCCAAACAG AGCAGTGTTT TATTTTCTC CAGAAAACAG  
 GAGATCCAG CATAATAAGA AAGTCTCTC TGTGTAAAC CTTACAAAAA AGTAACCTGA AGTAACCATT TTTTTT

SEQ ID NO:538: (Length of Sequence = 303 Nucleotides)

ATCTTCATGG GGTCTTAAC TGTAAACAAA ACCCCACAAT TTGAACAGAA GAACAGAAGT ATCTGGTTAC AGAAGTGCAT  
 TCATACATTT CACAAATGTT TCAGTATCCT CTCTCCCCG ACCCCAGCAT GAGCTTTAAT TGGATGTATT TATCTTTCA  
 CCAGCATGCC CATGAAGNG CTAAGGAAA CATTACCAA GTCTGTTCA AAATCTGTCC TTGGCATATC AAATTTTTT  
 TCTCTCTTT TCATGCTTT TTTTAAAAA AAAACAGGA GAAAGCGAAT AGAGAGGAAA GAG

SEQ ID NO:539: (Length of Sequence = 352 Nucleotides)

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CATGTCATAG TGGCCTGCTC TCCTAACACA GCACAATTIA GGGCATATTT TCATGATGGT CTATCACTGG ATTACAACAC  
 ATCTCTTCAT TAAAGTCTTG GGAAAGAGGC TTCAACTTIN CIGTGTGAG AAAACTTCAC AGGTGTGTAA AGTTTGATCA  
 GTATGTATAA TATATTINAT TACATATATT TNATTINAT TTTTCATTTT TTTCATACA TAGCAGGTGT ATATACTTAT  
 GGGTTATATG AGATATTTTG ATAAAGGCAT GCAATGTGTA ATAATCACAT CAGGTAAAT GCAGTATCTA TCCATCACC  
 CAAGCATTTA TCCTTTGTGT TACATACAGT CCAATTACAC TC

SEQ ID NO:540: (Length of Sequence = 416 Nucleotides)

CACCAGGGAG AACCAATACA ACAGAAAAA AGCAGAGAAC AGCTATGTGT CCTGCCAGGT CTACCAAGA TAGTCATCCA  
 AACATGAACA GATGAGAAGG CTGTTTTTCA AGAAGGTGAA AGTGACAGAN TATTCAATGA ATCTGAACAC ATGAAGATAC  
 TGAGACACCA GTAGTTCAGC AATAAGTGA GAGAAACTA AGCAAATGAG AAACCTAGGA ACAATTATGC AGCAAAGAAC  
 AACTGGATAA GCTGAAAAGT GTTAAAGAT GCTGCCGTAA AACTAAGTA TCACAATCAA ATTCTGATTT GTAAAAATAG  
 AGGTATGGGA AGGGTACANG TATGTTTGTG GGGCAAAATG GTGAGGAGAG CTAAACCCCT CTCTTCCTT AATGAGGAAT  
 TAAATAATCC CATTAA

SEQ ID NO:541: (Length of Sequence = 341 Nucleotides)

GAAATACTTC CAGGCCTTCG AAAGGCCATC CTTTGACAC ATGTAAAAAG CTGTCTGTGT GSCCGTTAT TCCACTGAC  
 CCGTCTGAGT GATCACCAG GAGCGCGCG GCAGCAAGCA GAGTCACCG GATTGGGAC AAGGATTTA AAGGCAGCTA  
 CAAAGCTGAG CTCIATTTGC TGATGATAGT CTCGTTCAG CTGTTAAAA TGACTGTCTG ACTCACCATG GTAAATTTTC  
 ACAAAATAA AACACATTTT GGGTTGTGCA ACAGTGGTTC TCATCTTCC AGGCAGGCAG ATTATTTTAA TGCTGTTAT  
 ACAGGAATT GGGACTCTCG G

SEQ ID NO:542: (Length of Sequence = 334 Nucleotides)

TTGTGTTTC CTACCTAAC CAATACCTCC TGGAAAAAG AGGTATTGGT ATAAAAATA ACCATACCA AACATCCCA  
 CAACATGACC TTAATAAGCT GGTGCACAGT AGATTATGCC AGAGGAAAGA AAATTGACTT TAGAATTAGA GAAACTTAGG  
 TTCAAATCTC AGCTCTGTCA TGCTTTGGTT GACCTTCAGT AAGTCCCAT TNCITCATCT GTAAAAATGG AATAACATCT  
 ACTCCACAGC ATCATTAGAA AGATTAAATA GTGGCTGGGC ATGGTGGCTC ATGCTGTAA TCCAGCACT TTTGGGGAGG  
 CTGAGGTGGG GCGG

SEQ ID NO:543: (Length of Sequence = 350 Nucleotides)

ATTGTTTTC AATTGACAAC ACCTCAITAA TTGTAAGCCC AGTGACACTG CTGCTGTTT CAAGTCACTT TTAAATTACA  
 CACGTGCTAC TTAATCTTAA AAGCAAAATT AAACATTGGA CTGTTTACA TTTCAAGCTA CAATATGGAA CCATTGTATT  
 TGGAGGAATG AGTTTAATAT GCATTGTAAA ATAAATTAG GGGTACTTT GCATTACAG CGGCTTATGT AATTAGGTTC  
 AGTCAACTGT AATGTTTCAG GTTAATGTCT TCCATGGATG TATGCTGTGT AAATAGTGAA CTTACATATC CCTAATACA  
 TCTGAATTAT TACATAAATC CTTAATATTA

SEQ ID NO:544: (Length of Sequence = 328 Nucleotides)

GGGAGACGAG AACTCTTGAG ATCOGGGTC ACCTGTNAGT CGCTGGACCC AAGGGGAAG CGTCTTGATT CCTGGAGGAA  
 ATCTCOGAAG TGATGTGTAA CCTGTGTGT CGCTGCACT TGGCGGCAA CTGCCTTTGG TTCAGTCCC TGTTCCGTGA  
 GGAGGCGGG ATCATGTAA AGTGGAGCAC ATCGCTCCG GCTTGGACGC CTTNACCTT TAAGTGTCC TGATTAGTT  
 TGGCTTTGG TCTACCAAGA ATTCTAGTCA GTTAACTAGC TTTTAAAGCC AGGTTCCTGA ATTTGGTAGG CATGGACACT  
 CCCAGTAG

SEQ ID NO:545: (Length of Sequence = 342 Nucleotides)

GGGCTATTAC CTCTGGGCAC TGGGAAAAC TGGAGACGGG ACAAGGGGTG ACCAATTTTT CAGTGTATGC CCTTTTCGAA  
GTGTTAAACT TTTTTTTTTT TTTTGTGAGA CAGGNTCTCA CTCTGTGCCC CTGCTGGAGT GCAATGGTGA GATCGTAACT  
CACTAAAGCC TCAACTTCCT CGGCTCAAGC AATCCTCTCA CCTCAGCCTC CTGAGAAGCT GGGACTACAA GTNIGTGCCA  
CCATACCTGG NTAATNTTA AAGTTTTTGT AAAGATGGGG GTTTTCCGAT GTTGCCCAAG CTAGTCTCAA ACTNCTGGGC  
TCAAGTGATT TGCCACCTT GG

SEQ ID NO:546: (Length of Sequence = 280 Nucleotides)

CTCGTAATGC CAGCATTTTG GGAGGCTTGA GGCGGGAGGN TCCCTTGAGC CGAGGAGTTC GAGATCAGCC TATGCAACAC  
AGTGAGACCC CTATNCTAT TTNATTTAAA AAAAAAATAA AAAGGGGGTC ACGTTTACTG CCACCATCCC AGGCAGAAAG  
ATGAAGCCTA GAGCCTCTCA CTGCTTCTTA GTGGGTCTTG GGTGTGAATT TGCTGTCTTG GGTATATTTT TTGGCAGAAA  
GCATCTGGCA TCAGGCACTG GTTCTCAAAG TCGGGCCCC

SEQ ID NO:547: (Length of Sequence = 298 Nucleotides)

CTAAAGAGTT TCACATAGTG GCTCAGTCCA GCCTTGTTGG GATCTTGCCG GGGCCTGGGG CCGTGGTCC GGGGCCTAGG  
GGGATGCCIN ACCAACAGAG GCTCNCAGG CTCTGAAGAT AAGCTGAGGG CAACAGTGA CAGAGGGGGC TGAACCTGCC  
TCAAGAGGC TCTTATTCAA GAGCAAGTCT TGCTGGCTTC TCTGAGGCT GGGGACCAG TGCCCTTTTG GCCAGCCAGG  
ACCAGCAGCN CTNACCACCT GCTGAGGGGC AGTTTGGGTC AGGGGGGCA CATAGAGG

SEQ ID NO:548: (Length of Sequence = 311 Nucleotides)

GAGACAGGGC TGTTCCTGC ACTACACTGG TCATCTGACC AACTTTCTGC AATGCTAAGA AGGTATTCTT TGACCAAACA  
GCAGTCACA TACAAGTTTA AAAGGGGCC TGTTTATGTA GGAACAACAC TGAGGTGGTG CGTAGCAGGT ACAAGACGCC  
CAAATATTC CAGTTTATCT TACGGCTGGA CTCCTATCT CCCACACTGT TTCCTAAAGA AGTCCACAT TATTTTGNT  
ACTAGCCTAG TTTAAGTGA GATACTGTGG GCAACTTAA AGAAATGACA TCAGGCACAC AGGCTGAGCT T

SEQ ID NO:549: (Length of Sequence = 387 Nucleotides)

TTTATTTTGG TGTAAAGACA GGAAGCTGGA AAATACACTG TATTTAAAT TTNCTTGGTT CCCCCTCACA TTGTGGAAAC  
CCCCCCCCC CAGAGCTAAT CTGTTCAAAC TCAAATACTT AAAAATTACA GCAGCCAAAC AAAAGCATGG GGGAAAAA  
AACAAAAACA AAAACCAGAT GGAGAAGGTA GCCTGGGCCA GTAGTGTAC TTGGTGTGGA CCACTGAGGT GCTGAACAGG  
AGCTTCTGTT TCTGTTTTT TCTTTCTTT CCTCCTTCT CTTCAGAGAG GGGATCTNGA AGTAGCTGGG TGTGTCCAGT  
TTCATGAAGG CTGCTTCAAT AGCTTGGCTG AAGGAATTTT GAAAACTNGG CACAGGAACA CGGGTTT

SEQ ID NO:550: (Length of Sequence = 377 Nucleotides)

CACCCCAAC TCTTCACCAA GTAGGGGCC TGGCTTGCAA TTGCAGAAGA GCTTTCCCAT CCGTGGGTGA GCATACCTAC  
TGGTAGTGGC TCGTGATTC CTTGGGGAGG GGCTCCAGA GTTAACCAAC CAACCTGTG CTACTGCTAT GACCACAGTT  
CTGCTCTGC TGCCCTCAA CTGGGAAGA AACAAAGAGC CTGAGGGCTT TACTCACGCT TCTAGCACTA CGCAGTACC  
ATATAAGAG GAGCCAGTC TCTCTTCTT GTGAACCTT GACCCCAAC TCTTCACCA GTGGGGCCCC CAGCTTGGGC  
CAGCAGACA GTGGCCCCA CCCCTAGGCT GAACATTCCA GTAGCAGCTG CTCGGG

SEQ ID NO:551: (Length of Sequence = 320 Nucleotides)

GAGTTTNGG TGAGCCGAGA TCACGCCATT GCACTCCAGC CTGAGCAATC AGAACGGTCC GGCTCCTGTT GCTCAGGAAG  
CAGCTCTGGA TGACCTTCAT GATGAAATTT GCAGCCTGCG GTCAGTCTT GTTGGGCTA AACCTGAGGC TGGAGGAGAG

GCTGTGTCAG GGCTGCCATG GGCAGGGCOG TGCTGGCTCC CTGGCCCACT GGGAGGAGGG TCTTCCATGG GGACGGACTT  
CAGCTGAGAG CCATGCCCTG GGAAATGTAC CTTTGGGGTC CACATGTTGG AAGATGGGGT GCTGTGAAGG CCACACC

SEQ ID NO:552: (Length of Sequence = 334 Nucleotides)

ACAAACTGAC AAGAGAAAAC AAAGAATTCT TTGGTGATCT GGACACGCTG ATGGGGCCTC TGACCCAGCA CAGCAGCATG  
ACCAATCTTG TCCGCTACGT TCGCCAAGGA CTGINTTGGC TGCGCATCGA TGCCCACTTG TTGTAGTGGG TGTTCTCAGA  
TCTCTAGCAT CACGACCCAT CACTCTACCT CTACCAGGCG ACTGATGGTC ACTGGTGGAA CTCCACTCAC TGGGGAACGT  
TCTCTTTGGT TATGTTTGT TTTATGCTTC TTTTGTATC TGTAAAAAC AGAAGTCAIT GTAAGTTGAC ACTACAACCT  
AAGGGCAGTG TACG

SEQ ID NO:553: (Length of Sequence = 371 Nucleotides)

GAAAAGGGGA AAAATCACA TATGTGTCT AGACAATATT GGTTAGATT TTTTAAAGAT CTAAATTC AATTATGGAAA  
GCCAGCAGCC TGATCCAGTT ACTGTGACTA AAGCAATTGT CAGACCATCT CTAGTCAACC CCTTATGGGT TTGCAATGT  
GTCTACCCCA ATTTTGGATC AGGAGGGGTC AAACAGAAAT ACAGCAATGT GATTAACTG CTCCTTTGCA AACAATATGA  
AAAGGTTTGT NCTTTCAAAG TAGATTCTAA CAAATGCTCT GCTCACTGTG GGGTAGCAA GNGAGAAAAG CAAATCTTC  
TATTAGTCTC AAGCAAGTCT TCAGATTAC ACACAATCTA ATGGAGGCAT C

SEQ ID NO:554: (Length of Sequence = 331 Nucleotides)

TTATGACTTT TTTCAATAAG GCTATTGTAT CAGCCTGTC TCTGCTGCT AATAACGACA TACCCAAGAC TGGGTAAITTT  
ATAAAGGAAA GAGGTTTAT GGACTCAGAG TTCCACATGG CTGGGGAGGT CTCACAATCA TGGGGGAGG CAAAGGAGAA  
GCAGATCAC ATCTTACATG GCAGTAGGCA AGAAGAGCAT GTGCAGGGGA ACTCCCTTT ATAAAACCAT CAGATCTAGT  
GAGATTATTT CACTATCAAT GAGAGGCAGC ATGGGAAAAA CCTGCCCCCTC ATGATTCAAT TACTTCCCAT TAGGTCCCTN  
CCACAATACA T

SEQ ID NO:555: (Length of Sequence = 305 Nucleotides)

GCTGGGACTA CAGGCGCCCG CCACCACGCC CGGCTAATTT TTGTATTTT TAGTAGAGAT GGGGTTTCAC CATGTTGGCC  
AGGATGGTCT CGATTTCCTG ACCTCATGAT CTGCCCCCT CGACCTCCA AAGTGCTGGG ATTACAGGCG TGAGCACCGC  
GCCAGCCCA ACACATGGTA TTTCTGTCA TTTTCATTTA GTCTTCTGGT TGCTGTGIGA TGGTCTCAGG CTTTATTTAC  
ATTTCTCCGA TTAATAACAG ACTTGAACAT TTCAGCACAC TTTTAGGTT ATTGAATAAC CCTA

SEQ ID NO:556: (Length of Sequence = 318 Nucleotides)

CTTTTGGT GATINCTAAG CTCGTCTTIN CTTATCTAT ATATATATGT GGTGGTMTT NATTTTAGGA TTTTAAGGTT  
ATCCCTAATA AATTTTGAGA TGTGTCCAT AGCTAGCCTG TTGAGATCTT TTNATATCAA AAGTTAATAT CTGTGGATTT  
NTAATCATTC TTTCTACATA TTTAACAAAG TCATTAGCAA AATATGAAC AAAACCTGTT ATTCATATCC TTAGATACAG  
AACATCAATA TCTGAGATA CAGTACATCA TCAAAATGTG GTCCCCAAT GNGCAGCAAT TAGCATCATG TGGGAGCT

SEQ ID NO:557: (Length of Sequence = 349 Nucleotides)

GGAAGCAATG TGCTTCTCT TAACAGAGAT ACTGCATAT TCTCTATGTA TACTCACTTG ATGGCATGGT ACATGTCCTC  
CAGGATGTCT TGCTCAAAGT CCTTGCTCC ATTCACACCT TTCAGATTTT TGCGAACTC CTAGAGACAG GCCAGTAAGT  
TTTTTCCCTT TGTGTCAACA CTGAAGCCCC ACCTAAGGAA CTCTTGGGT TTAGTAAT AGGACTTAGG AAAAGGTAAG  
CGAAAAACC CACTTCCCCA CCCCAGTCCC TTTCTAGGT TTGGGCCAGC CCTTCTTGA TTCTCTGGA CAGAACCCCA  
TCCATCAATG CCACTGGAAT CCTATGCTC

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SEQ ID NO:558: (Length of Sequence = 279 Nucleotides)

GGGCCAGGCG CTGTGGCTCA CGCCTGTAAT CCTAGCACIT TGGGAGGCCA AGGTGGGCAG ATCACCTGAG ATCAGGAGTT  
CAAGACCAGC CTGGCCATGT TGAAACCCCA TCTTTACTTG TAATACAAA ATTAGCTGGG CGTGGTGGTG TGCGCCTATA  
ATCCCAGCTG CTTGGGAGGC TGAGACAGGA GAACCTCTTG AACCCGGGAG GCAGAGGTIN CAGTGAGCCA AGACTGCACC  
ACTGCATTCC AGCCTGGGCG ACAGAGTGAA ACTGTGTCT

SEQ ID NO:559: (Length of Sequence = 278 Nucleotides)

GAGAAAGCCA AGAGCCATCT GGAGGTGCCG CTGGAGGAGA ACGTGAACCG CCGCNTGCTG GAGGAGGGCA GCGTGGAGGC  
GCGCACCATC GAGGACGCCA TTGCAGTGCT CAGCGTGGCG GAGGAGGGCG CCGACCGGCA CCCAGAAAGA CGCATGCGGG  
CAGCCTTCAC AGCCTTTNAG GAAGCCAGC TGCGCGGGCT CAAACAAGAG AACCCCAACA TGCGGCTINTC GCAGCTGAAA  
CAGCTCTTCA AGAAGGAGTG GCTCCGCTCT CTTGACAA

SEQ ID NO:560: (Length of Sequence = 304 Nucleotides)

CAAATGTTAT TGGAAGTTAT CTAGAAGGCT CAGTAACCAG AACTTCCTTT CATTCTGCTT TTTTTTTTCT TTTTTTTTTT  
CTTCTGAGAC AGTCTGGCTC TGCTCCAG GCTGGAGTGC AATGGTGTA TCTCAGTCA TTGCAACCTC TGCTGCCCCG  
GTTTGTGCAA TTCTCCTGCC TCAGCCTCCC GAGTAGCGGG ATTACAGGCA CGTGCCACCA CACCTGGCTA ATTTTTTTTT  
TTTTTTTTTT TTGTATTTTT AGTAGAGCCG GGGTTTTCAC CATGTTGGCC AGGCTAGITT CAAA

SEQ ID NO:561: (Length of Sequence = 323 Nucleotides)

GATGGTAAAC ATAAACCCAA ATATATCTGT AATTACATTA AGTGCAAGTG AACCAAAACA GTTCAGATAA AAGACAGTAC  
CTATTTTATA GCATTATGAC TATCATGAGG TAATATATGT AGAGATTAGA GTACACATGT CATATTAGGA GGTGTGCAAT  
AAATGATACT TTATCTGAA GATTACATA ATTCATACTT AAAAGGATCA AGAAGTAGAA TATTAAAAAA NTAGAATGTG  
AATGTTTCTG CAAGTTTTGA TAAGAACAAG CCCATAAATT AATCTCTAAT TTGCTACATT TAGGGAATAT GGGTAATGAC  
TAC

SEQ ID NO:562: (Length of Sequence = 214 Nucleotides)

TCTAATNAGG CCTGCGTGC TGTGTCATCC CATGGCGGAA GAAGGAAGGG CAAGAGTGGG TGAGATTGIN AGCAGGAGAG  
AAGGCTGAAC TTCATATTTT AACAAACCCAC TTTCATGATT ATNATAATCT TCGCATTTAT TTTTTTGGGT CTCTTCATGT  
NCTCTAAGCT TTCTGCGGN TTTTGGTCTT TTGCTCTTC ATTTTGTAGAA GCTC

SEQ ID NO:563: (Length of Sequence = 358 Nucleotides)

TTTTTTTGT GAGAAACAGA AGCTGAATAT CCGATTGTA TTGCCCACAC AGGCGTTCAA TGGCTTAGCA GTGCTAAAGA  
TTTATTTTAA TTTTTTTGGG CTCTGGGCTG ACATTGGAAA TTTTNCIGAA TGAGAAAAAC CATCTCAAC CACTGTTTTT  
TAACACTGAG TAACTTTGGA AATTAACTTT TGCCACAGAC TIGAAAATGT TTCTTAATGA ATTGACCTG AAATTACAAG  
GTACAACAAC ATAATATGGT AAATTCATTT CAATAAAAAC TAAAACCTAA GATTGTCAAG CTGCTTTATA TACTTNCGT  
GCTATGAGAA GTCAAAACAG CGCTGTATTG CCAAATCC

SEQ ID NO:564: (Length of Sequence = 405 Nucleotides)

ATGTACTGTG TGTTTCATAC ACATGTTTCC TTTAGTCTTA AAATCTGGCT CATGGGGTAA AACTATTAT AATCTCCATC  
CTCCAGATGA GGAAAGTGAG ACTTAGAGT TAAGTACATT TTAGGATAAA GTAGGGTATT TGATAAATG TTTCAAATGT  
GTTCTGGTC TCTGAGGACT AACTCCAG GCTGCTGGG ATACAAAATA CCTTCTCTT ACCATAGGAG CACTGGGTA  
GAATATTTGC AGAAACAATA AACTGGCTGA TATTAAAGT TTTCTCTAC TCTGACATTC TATAATTTCA TTGACCTCT



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TTGCATTAA TTATGTTGAT TTTCCTTTCT ACCOCTTGCT TAGCTAAAAA TATACCCCTT CTNIGTCCAT GGACAGGAGG  
ATGGG

SEQ ID NO:565: (Length of Sequence = 196 Nucleotides)

CATCCACATC AGGCAAAGGC AAAGCAGGAC CTGAACCTCC CACCCCAAGC CCTACATCCA TGCAAGCCAG ACCAGACTGG  
GTCAGAGGCT AGAAGGGNGC TCACAGGNTT GCTTGGGGAA GCGTCGGCCC AAAACCTGGC CCTNGCTCCA GCCCAGAGNA  
CCCACTGGG CATNAGACTT GCGGCAGGT AGGGGT

SEQ ID NO:566: (Length of Sequence = 275 Nucleotides)

TTGGAAAAA GAGAAAAAA AATTCTGCTT CATTTACGAA TGTTGCCAAA GGAGGCAAGT TTTCAACTGA AAACAAAACA  
TAAAGGTCTA TGTGGATGCA GCCAAATGTT TCTCCATTGA GAAAATCATC ATAAAAGGTG GCAGCACTTT TTTTGTCTGT  
TAACTATAAT ACTTATAACT GGCTGCACCA ACATTTTCATC TCAATTTTGT GAGTGTCTCT TCTGATCAAT CCTAAAAGCA  
ACACAATCAT TTTAGAGGTT GCAGACTACA ACAGC

SEQ ID NO:567: (Length of Sequence = 349 Nucleotides)

CGCTCGINTG TCCACACAA ATGTTTAAGA AGTCACTGCA ATGTACTCCC CGGCTCTGAT GAAAAGAAGC CCCTGGCACA  
AAAGATTCCA GTGCCOCTGA AGAGGCTCCC TTCTCTCTGT GGGCTCTCCT AGAAAACCAG CGGGACGGCC TCCCTGCTGA  
TACGTCTAT AACCTTAGGG GGNCTGGGG CAGGCAACT CATCTCGGTG ATGGCTGTAG ATGCTAACAC TGGCCAAATC  
AATGCCACAC CTACTGGTTA CCCTTTGAGG GCATTTCTCC AGACAGAAGC CCCTTGAAGC CTAGGTAGGG CAGGATCAGA  
GATACAACCC GTGTTGTCT OGAAGGGCT

SEQ ID NO:568: (Length of Sequence = 368 Nucleotides)

CTGTAACTT CCGATTGGN TTTCOOGCC TCANCCCTT CCAGGGCTA TTCTCTCC ACCTGCTGCC AGGCCTTTCC  
CTGGCCATCC TGTTTAAAT GTCATCCGC CCTACTGTT ATGTTCTCCA CAGCACTGA ACAGACCCA ACATGCCTTT  
TCACTTCAAG GTTTATCTT CTATTAGTTT TCCAGAGTC TGCTTCCCTA GTGTCCATCT CCGCTGCTCG AATGCCCTTT  
GAGAGCCAGT GCTGTATTT TGGTCCNGT GGTATGGCC TGGCACATAG TAGGCAGTCA GCAGATATTT ATGGAACAA  
CAAATGAAT TGTTGACTA TAGTTCATTG TTCATAGTTC ATTCATAG

SEQ ID NO:569: (Length of Sequence = 328 Nucleotides)

TGTACTTAA TGACAGCTG GGGCTCAGGA CACAGCTTTG CACACCTAA GTNCTCAATA AATGCTAGCT CAGGGCAGAG  
CTTTCATAC CTTAAGTACT CAATAAATGC TAGCTCAGGG CAGAGCTTTG CATACCTAA GTACTCAATA AATGCTAGCT  
CAGGGCAGAG CTTTCATAC CTTAAGTACT CAATAAATGC TAGCTCAGGG CAGAGCTTTG CATACCTAA GTGCTCAATA  
AATGCTAGCT CAGGGCAGAG CTTTCATAC CTTAAGTACT CAATAAATGC TAGCTCAGG ACAGAGCTTT GCATACCTA  
AGGTGCTC

SEQ ID NO:570: (Length of Sequence = 313 Nucleotides)

CCCTAAAAGG CAGAGTGTCT TCTTACCTCC ACACAACCAC GCTAGCTCTA TAGCAGTGGT TCTTAACCAG ATTGAAATGG  
CTGAAATGAC AGACATATAT TTCAGAACCT GGATGGGAAG AAAGCTCAAT GAGATAGAGG AGAAGGTTGA AACGCATCCA  
AGTAAAGCAG TAAATGATC CAAGAGTTGA AAGATGACTT AGCCATTITA AGAAAGAACC AACAGAACT TCTGGAAATA  
AAAAAAATC ACTACAGGAA TTTTATAATG CAATTGSAAG CATATATAC AAAATAAACC AATCTGAGGC AAA

SEQ ID NO:571: (Length of Sequence = 338 Nucleotides)

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AGGAAAGCAG GGGTCTCAAT TCTGTACGAA AGAGGAGGGT GTTTTACTTC CTGGAATTAT AGAGGCCAGA GGTGTCTCTT  
TTTCAATTTA TTGGGAAGGT TTATTTTAAT ATGGACTTAG AAATAAATAA CTTATTAAAG TGAAGGTTCA CCTGGAGCCT  
TAGGCTGGCT GCTAAGTGTG AGTCTGGGCT GTTGAAGGGA CTGTNCTGTT CINCTGGGC TCTGTAGGAG TTGAAGGAG  
AAGACTGGCC CCAAAGGGTG TTTGAACAGG TTAGATGTGC CCATGGGTTA GAACTTACTT GGATAGGGAG AAGGGNTCTA  
GGGCGTATCC ACAAACCT

SEQ ID NO:572: (Length of Sequence = 375 Nucleotides)

CTATTTCCAG AAGTGACAGC ACAAGTCTGA GTTGCTGTTT GGTCTGGTGA CCTCAGACAC ACTAATTGTA ATTGAAAGCT  
AAGAGTAAAA ATTINCTGGT TACAGGCGAG TCATACTCTT GCAAGTAGTT AGCAAAGGGA GGCCCAAATT CTCAAGGTTG  
TTGATGGGGA ACTTGCCACT AAGAGAAGGC AGAGAGGTCC CTAGTGGGTA TATTINCTGC CAAGCCACTT GCCAAAGAAG  
AGGAACCACA GAAAGAGAGA CATCATGACC NGGAGAAAAA TGTGACTAGA CATGCTAACC TCCAGGINTT TATATATGAC  
TTGAGTCTGC TGTAATTGGC AGCAGAAATC CAAATTTGT ATGGGTAGAC CACAA

SEQ ID NO:573: (Length of Sequence = 396 Nucleotides)

GAATCCCCAA AGGAGAGGAG CTAACCTATG ACTATCAGTT TGATTTTINAG GACGATCAGC ACAAGATCCC CTGCCACTGT  
GGAGCCTGGA ATTGTGCGAA ATGGATGAAC TAAGAAGCTT TGAGGCTACC AGGCAGGGGA GTCCCCCTAC CCACAANCTC  
TTCCCTGAAA GNAATNGAGG GGAAGAGAG GTAGCAGCCA GAGCCAGGAC CCAGGGTTGG GGCTGCCGGC TGACCCGGAG  
CCCTGGAGC AGGAGGCTGG GGCAGAGGGC CCTAGGCCAA GCCACCCTG GGCACCAGG ACAATCCTCT TCCCCACCAC  
CGCCCTCAG GCTGGCATCT CTGCCCCAG CTTCAGGAG GGCACAGCA GAAGCAGCCA TTTGGCATCT CAGGT

SEQ ID NO:574: (Length of Sequence = 373 Nucleotides)

CTAAACAGAT TTAATCCCT CCCAGCAATC CAGATTAAAT TAATATGCTT TCTTAACGGC ATTCCGCATT TMTATTAAA  
GCAATGAAC GTCCATCCCT CTCTGATAAA TTAGGGCAAA AAAATTCATA TGTTTAGGGC ATAGGAAGG AGGAGTTGTT  
GGCTGTTAAA AAAAGAACA AAAAAAGTA CCGCAATGG CGTTCAAAG TCTAGACATC TTATCATCA ACACAAACAT  
TCTCTTCAC AAAGGGACCT CAAGTAACCT TAGGCTGGAG GACCCACCTG CGTATGTTTT TMTCTCATT CTTTCTTAC  
CTCCCTCCA GGCCACCAA CCCACATCA GTGGCCCAAG TCAGTGGGG TTT

SEQ ID NO:575: (Length of Sequence = 431 Nucleotides)

GCCCCATTA CTTCTTTGC TGCTACCACA ACAAGGTATA TTAGCCCTTG AAATTAAAGA TGTGTCTGTC CCAGTTGTGC  
TTGTCTTAC CTAATGCAT ACAGTCATAT TCCAAAGAC TATATATTAG TGATATCTAT ATAGTACACC CTTATATAC  
ATGAGCTCCC GTGTGTGGAG TGAATAATT GCAGATATAA AATATTTGGG AAAAAATTC ATGTGTACTG AACATGTATA  
GACTTTTTTN CTTGTATCA TTTCCTAAAT AATACAGAT AATAACCACT GTTTACATAG CATTACATT GTGTTAGGTA  
TTATAATAA TCTGTACATA ATTTAACTG TACAGGAGAA TATGGCATAA GNCATATGTG GATACCACAC CATTTTATAT  
CAAGTACTTG AGGCCTCTGC AGATTGTGGT G

SEQ ID NO:576: (Length of Sequence = 410 Nucleotides)

GATGCAACA GCCCAAGGA GGGAGGTGGA AAGGCCAAGG GGCTTGCCCT CCTGCAAGCG CGCCTGTAAA CAAGTCCCCG  
TGGGGTTTTG GGAGGTGCGC CCACATCTAA GACTGTGCGC CTGCACTCC CTCTGGATGG CTTGCCGAAT TTGGTCTTCG  
CTGATACCA ATTCTGGAAG GGTGGAGAGA CAGTTGGCTG GACAGCTGCC TGATTGGCC ATGACCTTC ACGGGTGTCT  
GTGGGCCAAC ACCAAAGCC AGCCTGCTCT GCTGGCAGGG CTCTACCTG CACAGTCCCT AGGGCTGCAA GAGCAAATGG  
GGACCTGTC TNCCTGCTCT TNCAGGGCC TTGGTCAATG ACATCACCAC TTTCTTAGGA CAGCTCTTG GGGAGCTACC  
GGAATTTTCG

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SEQ ID NO:577: (Length of Sequence = 405 Nucleotides)

GAATGAAAT GGCATATTG AACATAAACT TAGGGCAGAT TTTTACTACT TTTGAAAAA TGTGGAAAA TATTTCTGTA  
 TGAAACGTAA AACAACTTTT AATTTTTTTT AGAAGTTGAG AGGATTCTAT TTTGCAAAGC TGTATTATGA AGCTAAAGAA  
 TATGATCTTG CTAAAAAGTA AGTACAACT GTAACATGTA TTCTTTTTT AAAATCAATG CCTTINCTCA TTINCTTCTT  
 TGAAATAGGT AAAAATATGT CCTTAGTAGT TCTTCCTAAG TGTATTCTGG AATAAGGGAT TTATCACTCA GACTGATGCT  
 AAGGACCAGC CTAGATTCCA TTGAGATTGA AACCGTAAT AGTGTTTTCT GCATGCTGCT GCTTTATACC AAGGGCAAGA  
 AATTG

SEQ ID NO:578: (Length of Sequence = 406 Nucleotides)

CGCTACAGGG GGGGCTGAG GCACTGCAGA AAGTGGGCTT GAGCCTOGAG GATGACGGTG CTGCAGGAAC CGTCCAGGC  
 TGCTATATGG CAAGCACTAA ACCACTATGC TTACCGAGAT GCGTTTTTCC TCGCAGAACG CCTTTATGCA GAAGTACACT  
 CAGAAGAAGC CTGTTTTTTA CTGGCAACT GTTATTACG CTCAGGAAG GCATATAAG CATATAGACT CTGAAAGGA  
 CACAGTTGTA CTACACGCA ATGCAAATAC CTGCTTGCAA AATGTTGTGT TGATCTCAGC AAGCTTGAG AAGGGGAACA  
 AATCTTATCT GGTGGAGTGT TTAATAAGCA GAAAGCCAT GATGATATTG TTAGTGAGTT TGGTGATTCA GCTTGCTTTA  
 CTCTTT

SEQ ID NO:579: (Length of Sequence = 374 Nucleotides)

GTGGGCTGCT TCTGGAGTCC ACATTGGTAA ATATTATGCT GCAGTAAATA TTAATCTTGA GAACTAGGTG ATATGGTTTG  
 GCTGTGGCCC ACTCAAATCT CATCTGAAT TGTAGTTCC ATAATCCCCA CATATCATGG GAGTAACCTG ATGGGAGGAA  
 ACTGAATCAT AGGGCAGTTA TTCTATGCT GTCTCATAA TAGTGAGTTT TCACTATATC TGCTGGTTTT ATAAGGGGCT  
 TTCCCCCTN CCTTTGCTCT GCATTTCTCT TTCCGGCCAT TATGAGAGGA AGGACATGTT TGCTTCCCT TCTGCCATGA  
 TTGTAAGTTT CCTGAGGCT CTGAGCCAT GCTGAAGTGT GGAATTTAAT TAAA

SEQ ID NO:580: (Length of Sequence = 396 Nucleotides)

CAGAATAAAC ATTTACTATT AGGAGAGTCA AATCATTTAT TTTCACATGA AAGAGATTAA GTAAAGCAGA ATCTTTGATG  
 GTCTGCTGTG AATTCTTCG AGTGATGAG AAATTTCTGA AAACCACTT CAAATCAAT ATAATATTAA GTAAACTTTG  
 GCTTAGGAG TAAGAGAGAG AAGGTCTGG TCCATGTTGG GAAAGAATAG ATATGCCAC AATAATTAGT CTATTACTTG  
 TTTGAAAAGG GTGATTTCCT GTTCAATTCA AAGTATTAG CAAATAAGGA CATATTGAGT ATGTAATTCA TGGAAAANTA  
 AGNAACTTCT TACAGTATGA TTCTAAAGG ATTATGGATG CCATTATCCA TTTTGGAGTT GGTATTGAAG CTATC

SEQ ID NO:581: (Length of Sequence = 449 Nucleotides)

CTGCTCCGTG GCTGTTTCAA AGACTGGGCG AAAGGCTGTC CGGAGGGCAG ACCAGGTGCC TTGCCGCGA GAAAACACCA  
 NAGTCTCCTG TTGCTCATA AAGAAGTTT TGGATGGA GAGAATCCAG ACCATCTGG GGCAGCCANG CCTTGCCCTT  
 CATTTTACA GAGGTAGCAC AATTGATCC AACACAAAC TCCTTCCCT TTTTAAATG ATTTCTGTTC TAATGCCATA  
 GATCAAAGGC CTCAGAAACC ATTGTGTGT TCTCTTTGA AGCAATGACA AGCACTTTAC TTTACGGTG GTTTTGTGT  
 TINCTATG CTGTGGAACC TCTTTGGAG GACGTTAAG GCGTGTTTA CTGTTTTTT TAAGAGTGTG TGATGTGTG  
 TTGTAGGAT TCTTGACAGT GCTGTAATAC AGACGGCAAT GCAATAGCC

SEQ ID NO:582: (Length of Sequence = 261 Nucleotides)

CCAGCAGGTC GTACTGCGAG TGGCAGGGTC CCGACAGGG CCGGTCAGT GTGCTGAGCT TGGTGGGGG CACTGGCTTC  
 GACAGTGGCA TGACCGAGG GAAGTGGGG CCGAGGGGCC TCAGGGGGCT GAGCACGTCC TTGCAGAGGG GCGGGAACGG

GTNCTGCTGG TAGTGGCCAA ANACCTCGAA AACAAATGGC TNGCTCTTGA TGTACAGGTG GCGTTTATTT TCATGGATTT  
ATACACACTG GAAAAGCCTC T

SEQ ID NO:583: (Length of Sequence = 399 Nucleotides)

CCCAGGCCAC CATTTAAAGC AGCCATTCTT GCCAAAGAGC CAACATTGAG GCCAGCCGTT GCTCCAGCTA ATGTCTGCAG  
GGCTCCAAGT GAGGCTATGG GGTGACAGA ATTACTGCTG CTAGAGCTAG GTGAGGACCC TGAAGTAGTG AGCAGCTGA  
GGGACTGCT GGATGTAGTG AGAGCATTGG TACCATTGG TGTGTTCTGA NNIGCACTAG CTGCAGCAGC TAGTGCAGCN  
AAATTCTGTA ACTGCATTGC ATTCAACCTT CCCATTGGGT GGAGGCTGCT CAGGGTGTG AGGTTCACAG AGGAGGCAGT  
CTGCTGAAGG AGTGCTAAAT ACTNGGGTCC AAGAGTATTT AGACCAGCA GGTTCCTCCA CACAGATGCT GCGCTGATT

SEQ ID NO:584: (Length of Sequence = 441 Nucleotides)

GTTGTTTTTA AGGATTAAAT GAGATATTAC ATGTAATGTG CTCATCCCAG TGCCAGCAC ACAAGAAATG TTCAATAAAA  
TAGGAGGCAT AATGTCTCTG TTTGAATACT AGATAACCTT TTAAATGGAT ATTCTACAAT TATGAATCTA AGGTGCTTTG  
GAGGAGCCTA GGCAATCTAT TCCAAAATTA AATGTAAGGA AGGTACATGA GTAAGGGATG GAGTAGGCC TGGACCAACA  
CTAGAGCTCC AAATTTCTTA AAAAGCTTGA GCTTCTTTTA CTGTGGCCAC GCCTATAATG GGAATAAATC TGGTCTTCA  
AACAGTCCCT CCGCTCTCTA AGCTCTGCTG GGGAGTAGAG ACATCAGCAG GCTGGTCTG TGNITAGCTC CTCCCCATCT  
TNGACTCTCA TCCCATTCCT TCTTCTCTAC TACCCATTCA G

SEQ ID NO:585: (Length of Sequence = 326 Nucleotides)

GAAATGCAGG TTCAGCTATT TNGCTCTG AGAGTCCAGT TAACAAAAGT GAGTNGTGT ATAAAGAAAG TNATTTTTTT  
TTTTTAAATT ATTCCAAAGC TAGCTGAGGG GAACAAGTAC AGGCTTCTG CCTAGGGGTA TCCTTTGCT TTTGGAGCAG  
GAAGTAAGCA CTTTTAAAGG GGGCTTAACA TGAATGCAC ATGGGGTGG GGAAGTAAG CAAGTGCAGC ATCTACATGT  
TAGTTTGGTA CCTTATCTAC TAGGTAGTCA AGGTGTGAC TGCTGTGTC TTTGTGGGC ATGTGTACTT TGGGGTTGTA  
AATGG

SEQ ID NO:586: (Length of Sequence = 431 Nucleotides)

GAAAGCAAGG AAAGCATCAA AACCTACAGA GAAATTNTTC AAGAAAAGA GCGAGAGAG AGAGAGCTGC ATGAAGCATA  
TAAGANCGCT CGTCCAGG AGGAGGCAGA GGGATCCTT CAACAGTACA TTGAGAGGTT CACCATCAGT GAGGCTGTTT  
TCGAACGCTT GGAGATGCCA AAAATTCTGG AAAGAAGCCA TTCAACAGAG CCAAATTTAT CCTCTTCTT GAATGACCCC  
AATCCCATGA AATACCTGCG GCAACAGTCA CTGCTCCAC CCAATTAC TGCCACTGTT GAAACCACCA TTGCTGTGTC  
CAGTNTCTG GGATACCAGC ATGTCAAGCA GGCAAGTGG GTCTNCAAGC AAAACTGTG ACTTCCCAA AGCAAGTGCC  
TATGCTTGAC ANCCAGGCC TTACTTCCA G

SEQ ID NO:587: (Length of Sequence = 338 Nucleotides)

CTCAGCAAT TCTCCACCT CAGCTCCA AATAGCTGG ATCACTGGCA CAAACCACCA TGCCAGCTA ATTTGTATT  
TTTTGTAGAG ACAGGTTTC ACCATGTC CCAGGCTGGT CTCAACCTCC TGGGCTCAAG CAATCTCTT GCTCGGCT  
CCCAAGTGC TGGGATTACA GATGTGAGCC ACCGATCCA GCGCACACC CTCAATTTATA CCAATTACCT GCGCAGTAAC  
TGTGACTTT TGCTCTCTA CCCCTGCTT GATCTGGAAG GAGAGGGATT ATGTATAGC TTGTACAGC AGTCCCAAAG  
TTCAATATTT CTGCGGC

SEQ ID NO:588: (Length of Sequence = 277 Nucleotides)

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AAGACATTT AAGTAGTTCA TACAAAGAAA TATAAATGT NCTTAAATAT ATCAAATAT ACTCACCTCA TTCATAGTAA  
 AAGAAATAAA AACTGTGCT CTGATGACAT TTTTCATCTA TGAGATTAC AAAGNTCTAA AAATTGAGAA TATACATTTT  
 CTATTGCCTT TGGATGGCAA TTTGGCAGTA ACTATCAAAA GTATAAATAT CTATACCCCTT TGAGGTGTCA ATCTCATTTT  
 AAAGAATTTA TTCTTCAGCT ATGTACATAC ATGTAGG

SEQ ID NO:589: (Length of Sequence = 353 Nucleotides)

GTAATGAATT ATAAGAATCT GAATGAGAG CTAAATATC TGGGTGTAG GCCTACTCTG CCACGNTTTT NTTATTTGCA  
 AATATAGAG CTGAAGTACA TGACCTCAA GGCTCAACC AACTCCAAA CCTACATTC AATGGCTGAC TGATATACAT  
 TGTACTCT TTA AAAACAA TTAAATCAA AGANGTAAAT AAATGTGTCA TGTATTATAC AACTATTATA CAGTGTGTG  
 TGTATATATA TATATINININ CACAGAGAGG AAAGACATCT ATACATAGNC ATAACCATCA AATCAGTCAG AATTCCATC  
 AGACACTTIN CATTTCCAG GTCCATCAGA TGG

SEQ ID NO:590: (Length of Sequence = 364 Nucleotides)

CTCATATACA TAAAAGTGA TAAGAATCCG AAAAGACAGC CAGGGGAATT AAATGCCAGT TGGGGCCAAC GGGGCCCTGA  
 TCAGGAAGA GGGGCCCCC AGCTCTCAAT CTTCACACAA TCCCTGCACC CAGGGTCACA GAGCATGCGC AGTCTTCC  
 CGCCACTTC CGGGGCACT GCCAACCACC GCGCAGGCTG AGCCCCAGGC AGGAAGCAGC CCACTGTGTG GGGTGGGGT  
 ATGAGTCTT CCTCGCGGG GCTCGGTGG TCTGAGTAT TCTTTGCCG GATTINCTGA TCGTCTGCT CCAGGTGAGC  
 TNGGAAGGC CCCAGGAAA GGCANAG GGCCTTGCC AGGG

SEQ ID NO:591: (Length of Sequence = 311 Nucleotides)

GAAAGGGAA TAGGGAGTTA ACGTTAATC AATAGATTT GGAAGATGA AAAAGTTCTA GAGATGAGTG GTGGTGATGC  
 CACATAACAA TGTGAGGTA CTTAATACCA CTGAAGTGA TGTTTAAAT GGCAAAAAGG GTAAATTTTA TGTATGTAT  
 ATTTACCAG AATTTTTTTT TTAAGCTTA CTGCATGGG ACCAAGCGTG GTGGCTACA CCGTAAATCC CAGCACTTTG  
 GGAGCCNAG GCGGTGGT CACTGAGGT CAGGAGTTC AGACCAGCCT AGCCAACATG TTGAACCCC G

SEQ ID NO:592: (Length of Sequence = 358 Nucleotides)

ATTTGGTTT CTACCCATCA TCTCTCTC AAAGGAACCA GGGTCTTG GGGATTGGC TGATGCCAGG GGATGGAGAG  
 TGTAGTTGG NCTGAAGGG GAGGCTGCA GCATGTGTG GGCAGTCAAG ACAGACCAA GAGCCAGCTT GTGGGGCAT  
 CCTGGCTAC CTGGGGACA CAGTGAGGC CGAATAAAT AACATCAGGA ATGNTCACA ACGCAATGAG TAAGGGGAAT  
 CTGAGTCTAT AGGGATACAG ACCCAGAGT AAATNGCCAT GGCCACCCAC TTCTCTACAG GAGAATGTA CTAGTTGAGC  
 GTAGGAACAT GGAACAAAT GGTAGAGGT GCTGACAT

SEQ ID NO:593: (Length of Sequence = 354 Nucleotides)

GACAGACTGA AGGAATATAT GCAGCTTAAT TTAACATTT TTGAATTTT ATATTGCAGA AGTTGTACAT ATTNCTGTT  
 GTGAATTAG AAAGANTGA CAGCAAGGA GGGTGGTCTA CAAAGCACTC CATAGATCCA CCATACTGAG ACAATGCTTA  
 ATGCTTTGAT GGATTTATTT ATTNATACT TTCTATGCAT ATGCAITAT TGTATAAATA CGNATGCATG GTAAATAGA  
 AATGGTCTC CTGGTGTTC TGTATATCCA TTTATGTTG TGAAGTAAAT CCCAAGAG GTAGGTTGC TTTGCTGTA  
 GGAGTCTTT GCTACTACT GGCTGTACAT AATG

SEQ ID NO:594: (Length of Sequence = 319 Nucleotides)

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GAACATGGCC GTGAACTGCT CGGAGATGCG CTGGAACAGC TCCTGGATGG CCGTGCTGTT CCCGATGAAG GTGGAGGACA  
 TCTTGAGGCC GCGGGGCGGG ATGTCACACA CGGCCACCTT CACGTTGTG GGGATCCACT CCACGAAGTA GCTGCTGTTC  
 TTGCTCTGGA TGGCCAGCAT CTGCTCGTCC ACCTCCTTCA TGGACATGCG GCCCCGGAAC ACGGTGGCCA CCGTCAAGTA  
 GCGGCCGTGG CGCGGGTCGC AGGCGGCCAT CATGTTCTTG GCATCGAACA TCTGCTTGGG TGAGCTGGG CACGGTCAA

SEQ ID NO:595: (Length of Sequence = 370 Nucleotides)

GAAGAATANA AAGAAAAATC CAAAATGAAG AGTATTATAC AAGACAACTA GTCAATAGTC TTCAAAGTGT CAAGGTCATG  
 AAAAATTGAG GAAGCATCCC AGACTGAAGG GGACTAAGA AAGTGACAA CTAAATGTAA TGGGTGATTC TGGATTAGAT  
 CCTGGAATTG AAAAAGAACA TTCATGAAC AACTGACAAA TTGGAATAAG GTCTGTAGAT CAGTAACAGT ATTGCATCAG  
 TGTTAATCTC CTGGTTTAGA TCATGTCTTA ATGGAAATGT TTGTACTAT TTTTGTGGA CTCTTAAGGA ATGTGGGTGG  
 AGGACACGGA TGAGACCTAC TTGCATCGAC AACAGGCGT TCTACGGACA

SEQ ID NO:596: (Length of Sequence = 335 Nucleotides)

CCACAGAGCC CCAACTCCCC CCACAGGAGC CAGCTCCCC TCGAAGGCCT GGAGCAGCG GCCTGTGACA CCTGAAGCCG  
 CCAGCTCGCC ACAGGGGCCA GGGAGCTGGA GATGGCCTCC AGGTCAGTG CCAAGACTGA GGGGCCCTC CAGTGTGTTC  
 CAAGGAAATG TAGAATCACT TTGTAGATAT GGAGATGAAG AAGACAAATC TTTATTATAA TATTGATCAG TTTTATGCCG  
 CATGTTCGT GGCAGTAGAC CACATCTGTT CGTCTGCACA GCTGTGAGGC GATGCTGTTC CATCTGCACA TGAAGGACCC  
 CCCATACAAG CCTGT

SEQ ID NO:597: (Length of Sequence = 336 Nucleotides)

CTCCTGAACA TCACAACTT GGTTCCTACC TACCACACGA GTAGCCAAAA GAAAAGAAGC ACTAATAGAG AAAGGGGTGT  
 CTCACACCAG ACAGAGGACC TCTGCTGICA ATTAGATCCA GTATCATGAC CTAACCTTAA GTGTGGAAAA GAGTTCAGAT  
 CTCTGAGACA CTGTGAAGAA ATGGATGGCT CATGTAACAT CTCTGATCCC TCAGTCCCCA ACCCTGGACG TGTTCATTT  
 ACAACATTCA TAGGAGTTAA CTTAGCAGTG TTGCAAGITA AGGTTCNAAA CCAAATTAT TATCAGTGT CCCCCAATA  
 AATCACITA TCCCATTTTA TTGCTAGITT AGTTTT

SEQ ID NO:598: (Length of Sequence = 402 Nucleotides)

ACCACTACAC AATATATCTA TGTAACAAAA CTGCATTCIT ACCCCTTAAA TTCATACAAA TAAAAAAAT TAAAAAATAA  
 ATAAAGTAGG ACAATCCCC AGATAAATAA ATTAATAAAT AAATAAATAA ATAAATAAAT AAATAACTTT AGCTCTTGCC  
 TTCTCTACA CATAAGTTAA TGTCTGATGG GGTAGTGGT TATGCTTCG TAACTATAA TCAGATGTAC TCTTGACCC  
 AAACCTAGAT GCGATTTTNC GTATACTGGA ATCTTTGCTA CCTGTATATA AACTGTGGAA CTGAAAATGC TGCATTGGGA  
 GCAGTCTGAT AGGNTCTGTC CTAAAGGGCT ACTCTGAGGG GCTCTAGGGG CTTCACTCTA CAGGCCCCCA GGGAGGACTG  
 CT

SEQ ID NO:599: (Length of Sequence = 369 Nucleotides)

CTCAACAAAG TTTGGATTTT NCCACGATG ACTCCTTGGG TGAATTTTAA ATCAAGTTAT TTCAACCATT TTNCTCATAT  
 ATTTGCTGCA TCCCTATTCT GGTATTCAGT GAATACATGG GAGAGGTATG TNATTCTCAG CTCCCACAGC CCATAAGTCG  
 GGGAAACCAG ACTTCATTCC CCTCTGCTCT AACTCAGACT GTGAGGTGAT TGAGGGCAAG ACTGATGAAT TGTTCTCTTT  
 CCTATCACTG GTGCCAAGCA CAGTAGTTGG CATAAAGAAG TTAATCAATA AAGAGGGGGT GAAITTAATG AAAGACAGAG  
 GAAGNGGGA CCTGGGGGAA GAGGTGGGCA TAAAGTCAG GTACAAACA

SEQ ID NO:600: (Length of Sequence = 342 Nucleotides)

207

CCGCCCTCTG GGTTCAGCA ATTCTCTGC CTCAGCCTCC CGAGTAGCTG GGACTACAGG CGTGGGCTCC ACCACCACGC  
 CCGGCTAATT TTGTATTTT NAGTAAAGAT GGGGTTTCTC CATGTTGGCC AGGCTGGTCT TGAAGCTCTG ACCTCAGGTC  
 ATCGGCCCGC CTCGGCCTCC CAAAGTGCTG GGATTACAGG CGTGAGCAGN CGCACCOCGC CAGCTGCTTC TATTTTAATC  
 TGAAGTTGGA AACACCTTCC TACTTTAAGG CACAGGATCA GGGTAAGAAC CCACATGTAC GAGCTAACAG AGCTGCACTT  
 CAAATTTACT TAAGTTAATT AA

SEQ ID NO:601: (Length of Sequence = 319 Nucleotides)

AGTACTATTG TGCCATAAAA AAAAGAATGA GATCCTATCA CTTCGAACAT CTGGGATGGA ACTGGAGGTC ATTATGTTAA  
 GTGAAATAAG TCAGGCACAG AAAGAAAAAC TTGCATATT CTCACTCATT TGTGAGAACT GAAAATTAAA ACAATTGANC  
 TCACGGAAAT AGAGAGTATA ATGATGGTTT CCAGAGACTG GGAAAGGTAT TGGGTGGGGG GCAGGGAATG GGGAAAGGTA  
 ATAAGTACAA TGCAATGAAT ACGATCTNGT ATTTTACAGC ACAAAGGGT GGCTATGGTC AACATAATT TATAGTACA

SEQ ID NO:602: (Length of Sequence = 334 Nucleotides)

CACCCACAGA CTGCCAAGTG GGACAACCTT CTGGCTTTTG AAAGGCTCCT TCTTCAGAGC ATTGGGGAGT CAGCAATGTC  
 CGTTGIGTTA AATCAGCTGC TGCCCATGAT TAAGCCTGTA ACCCAGAGAA CCAACGAGGA CTACAGCCCT GAGGAACTGC  
 TGATCCTTCT CATATATATT TATNCTGTCA CTGGAGAGCT CACGGTAGAC AAAGACCTGT GTGAAGCAGA AGAAAAAGTC  
 AAGAAAGCAT TGGCTCAGGT CTCTGTGAG GAATCTGGAT TGTACCTTT GCTGCAAAAA ATTACGGACT GGGGACTCTT  
 CAATTAATCT GACA

SEQ ID NO:603: (Length of Sequence = 410 Nucleotides)

TTTCACCATG TTAGCCAGGA TGGTCTCGAT CTCTGACCT TGTGATCCGC CTGCCTCGGC CTCCCAGAGT GCTTGTATTA  
 CAGGCGTGAG CANCCGCGCC CAGCCAGGAT TATTTATTTT TAAATCAGAG AACTGAGTA CCACCTAAG GGAATTAAAT  
 TATGCAATTG GAATGAACT AAAGTGAATT GAACATTTAG TTTCACCTAG ATTTTATTTT TCCTGCCAAC TGTATATGA  
 GAGTTTGAGA GGGAGCCAG ATTAGACTTA GAGAAAAATA AATAAATTAC ATTTTATCTG CACACATGAA TTCTAGAGTG  
 AGTTAAATTT ACCACAGCGG GGCATATATA TGTATATATA TGATACCTTG TTTTATATA GCTCCNTATA GTTTTAAAG  
 CACTTTGTAC

SEQ ID NO:604: (Length of Sequence = 399 Nucleotides)

TCTCTAAGCA AAAAGAAAT GATGAAAGAA GCAAACTTGG AGCATCAGAA AGGAAGAAAG AACATGATAA AATGAAAATA  
 TGAGCTCCTA TTATGAACAT CGTATTACCA TTCAATGTGA AACTTAATCG TATATTTATA TATAAGCATC CTTCAGAGAT  
 GCTGIGGGTT CAGTTTCAGN CCACTACAAT AAAGTGAATA TAGCAATAAA GCAACTCATA TGAATTTTTT GGTTCCTCAG  
 TGCAATAAA ATTAACTTC ATGCTATACT GTAGTCATTT AAGCATGCAA TAGCATTATG TCTAAAAANT GTACATACCT  
 TTATTTAAAA ACGCTTTTAT TGCTTAAAN AGGCTAAATG GCCATCTGA GCCATGGCT TTTTCTCTGG CAGAGGGGG

SEQ ID NO:605: (Length of Sequence = 372 Nucleotides)

ATGCCATTAGA AATCCTACCA CCTCCAGAA ATGATAGTTA TGGAAATTAA CATGGCATGT CAGATATGGT TCGCTGATGC  
 CTGTCTTTAG TTCTCAGAAA TAAGGCTTTA AAAGACTGGC ATGTTTCAGG ATTGCTGTCA GGAAATGATA ATTTAAATA  
 CCCAAGAGTA CACTAAGAAT TATGGAAGCA TCTGTGAAC TAATAAGCCA GTGGACATAC TGATTTTAC CAATGTGTCT  
 ACATACTATA TTAATAAACT TCCTACAAAG TATTGTCCCA ATTCAGTTCA TCTGAGGATG TGAAAAACT ACAGTGTACC  
 TTAAACATC ACATTCACAA CCTGACAGA CTGAAATAAA ATGAAATTAG GG

SEQ ID NO:606: (Length of Sequence = 399 Nucleotides)

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TGCCTTCCTT TCTTCAATTC GAGACAGCAG TATCATTAGT GTTGTATAGG TTATAATTAA ATCTAAGTAG TTCTTTGTTA  
 AATCAAAGTT TACAGTAATA TCAAAGAAGA CTGGGCAAAC GTCAATAGTA TTCAGCAATT CACAAACATG GTCCTTAAAT  
 TCATAACAT CTACAAATGT GAAGTAATAT AATGCCAGAT TTINCAGAAT CTCTGATTTT CCTTTCGTGA GTTGTGCAAG  
 CIGTTGATTG TTGTGCGGG TTTCTACAGC AGGGAATTTT CTGACTATGA ATTTACAGC AGATTCCAGG NTTTTGTGCA  
 TAAGATAGGA TGGNITTGCC NTGGGNCCTC CACATGCCNT TCTTGATGTT GTAGAGGCGG GTGAGCATGC CGACGGCCC

SEQ ID NO:607: (Length of Sequence = 412 Nucleotides)

CTGTACCCCTT ATAAAGAGTG AAAGCCCTGC CCCCTTCTCC TATAGAACCC CTAGCAAGGA GACTGGAAGA NTCAAAAACA  
 ATCCACCCAA AAAATGGCCT GCAGGGACAC AGTCCAGAG AAAGAGACTA TGTACAACAA GGTACAGTAA GTAAGACCTG  
 CCCACACACA GGACTTCCAA TCGACTTCTT AGTGCTTACT CCTACAGATG AACAGATCAA CCAGGGCCAC CAGATGCTCC  
 AGGAAAGACA GGAGTCCAAA AAGAAAATTC GGTAAGTTTG AATATATTTT GAGCAAATTT TCAGTTCGTG TGAAGTATTG  
 GGGGACATT CAACAGTGAG TAGTAGTTTA GGGGAACAG CTGGCACCTC TGGCAGTCG CTCAGAGGTC AANCCAGCGT  
 NTAGGTGCT TT

SEQ ID NO:608: (Length of Sequence = 419 Nucleotides)

ATGAAGGCAG CTGAACCTC CATCAAGTTT CTGCCTCCCC AACGTAATAT GGAAGTCGTT CTGGCTGTAG GACCCAGCT  
 GATTGGAATT GGAAAGCACA GTGCAGCTGC AGAGCTCTAT CTGAATCTGG ACCTTGTCAA GGAAGCAATC GATGCTTTCA  
 TCGAGGGTGA GGAGTGGAAC AAGGCGAAGG TTGTAGCTAA GGAGTTAGAT CCCAGGTATG AAGACTATGT GGACCAGCAT  
 TATAAAGAGT TCCTCAAGAA TCAGGGCAAA GTGGACTCGC TGGTGGGTGT GGATGTGATA GCTGCTTTGG ACCTGTATGT  
 GGAGCAGGCG CAGTGGGGAC AAGTGCATTG AAACAGCTAC CAAGCAGAAC TACAAGATTC TGCACAAGTA TGTGGCTTGG  
 TATGCACTC ACTTGATCC

SEQ ID NO:609: (Length of Sequence = 337 Nucleotides)

GGTGGAAAGTT GTAGTGAGCC GAGATCATGC CACTGCACTC CAGGTTGGGT GACAGAGAGA GGCTCCATCT CATAAAAAA  
 GAAAAGAAA AGCATTTCTG AAAGGAATAA AAAACAAATT GATAACATCC CCTAATCTCT AGTTGTTGGG ATGTAGTATC  
 CTTCAATTGA TCAGGAATC ATATGATTGT CCTTAAATTA TTAAGTTGGC AGAATTTGTG TGGTTTCATA ATGATGCTTG  
 TAAGATGATA TTNTAATGGA AATGTTTTAG ACTATATCTN TTGTNGTTT TNCCTGTGTA TTTGTGTAAG GCTTAAANCT  
 ACCCCCTTTA AAAACAG

SEQ ID NO:610: (Length of Sequence = 441 Nucleotides)

TAAGCCAGAG ACATTTCACT GTATTAATCT TGATACTAAT TACTAAGGCT TTTCTGTGGA CATTAAATTT GATCTGTTTA  
 ATTGCAAATA CAATAAAGT CGTGATTTAT GCTTAATGTT TCTGCTAGGC TGATGACATT TTGAAAATGG CACTTATAGC  
 CTGGTTTGTG TTGGTTACAA CTTTGTGGC TCAGATGCT AAAAAAATC TAATTGAGTA AGTAAATAAT GCAGCTAAGC  
 GTGCCTCTCT CGCTCCGAA AAGTTTTTTC TACTCCPTTT TCTCCCTGGA GAGGCCCTGC TGCACACTGA TGCTGATCTA  
 AGGAAATGCC TTGCTTCTT TGCCACTGAG CAATGTTAGA ATCACTAGGA GGGCAGGGCT ATCCCACTGG TCACTCTGTC  
 CCAGCATATC TACCATGAAG TCAGCAGGGA CTACAACTC C

SEQ ID NO:611: (Length of Sequence = 344 Nucleotides)

TTTGGTACAG TAATTAGGTT TGGTTGATTC GGTTATGGGG GTATACAGC ACATGCAAAC ACACACAGGG TGTGCGTGTG  
 TGTATAGG GGATATACA CATGCACACA TATACATA TGTATATAG GATGTGTGTA TATGTGTGTA TATATATAGG  
 GTGTGTATGT ATCCTATATA TGTCCATATA CATGTATATG TNGTATATAT ACATGTATAT GTACACATGT GTGCATATGT



GTACATATAT GGTATATAT GTATATATCC CACATCTCCA ATTTCCTAT ACGTATATAC ACACATATAT GTTATATAGG  
GTGTACAGAT ATAGGATATG TGTG

SEQ ID NO:612: (Length of Sequence = 384 Nucleotides)

TGATGACCAT AAGCCCATGC TTTTCATAGA TGTTAAGGG TTAAATGAGG TAATGCATGT CGAGTGCTCA GCCAACTGAG  
ATTCAGGAAG CGCTCAATAG ATGCTGGCTG TCATTATTAA CTGAGTAAAT AATCCTTTTC CCACAGAAGC AGTAGAAGGC  
TGACGATGTG TGTGAAAAGG ATGGATACAA TTCCCTGGGC CACAAATAAA GGTTTTTTTG GTTGTGTGTG TGTTTTAAAT  
GAACAGAAAT GAGTTTGAGA GATTATATA TTATTTTACA ATACTCTTA ATGCTAGTTT AAAAAGTTCA ACATTGTCAT  
TCTACTCCAC TTCCGTATGA GATAAGTATA TGAGGGNGCT TAATCCCOG NTAAACTAAG CAAG

SEQ ID NO:613: (Length of Sequence = 342 Nucleotides)

TATTTATTTT TGTGGGTGTC GACTTCCTAT GTGGGCTTTT TGGGTGACAC TCCCTTAAGG GTTCAGTTTG ACAATTCTNA  
GAGTGTCTCT GCAGTTGGAG GCCACCAGAG GTATCTAAGC TCCTGCTTC CTATTINATA ATCTCCAGC CCCAGCAGGT  
CCACTCCTGG TTCTGTGTG TTGGCCCGG GCACAATCC CACTGCTTTG CTAGAAGTGC TTCTGCCAT GTGGCTTTGG  
GCCTAGAGCT TGTGATAAT TGCAGCTTGT GGCAGTGGA ATATGGCTGA ATGAGGCTT AAACCCCTGG GTNGGGGGNC  
TNAANINCNN GGGTTTTTAA AA

SEQ ID NO:614: (Length of Sequence = 393 Nucleotides)

CAGTGTATT AACATAGCC AGGAGGTGA AGCCACTTA ATGTCCATCA ACAGATGGAT GGATAAATGA AATGTGGTCT  
ATACATACAA TGGAATATTA TTCAGCTTTA AAAAAGGAGC AAATCTGCC ATGTGCTACA ACGTGGATGA ACCTTGAGGA  
TGTTTGTCTA AGTCACATAA GCCAGTCACA AAAAGACAAA CGTCGATGA TTCCATTAT ATGAGGAATC TAAAGTAGTC  
AAACTCTTAG AAAGTAGAAT AGTGGTTAGC AGGGGTTAGG GGGAGGGGA AAAGAAAAT TACTGTTTAA TGGCTATAGA  
GTTTCAGATA TGCAATACGN NAATTTCTGG GGGATCTTT TGCACCACCA ATGTGCACCG TATAATTCCA CTT

SEQ ID NO:615: (Length of Sequence = 310 Nucleotides)

ATTATATACA TTCCTTACT GATTTTTTAA AATTGTGTCA ATATCTTCAG TGAATCTTA ACAATCTGGG GAACGTTTTT  
CCTCAATTAC CACTTCAGCA ACGTTCATAC GAAATCAAGG CTGCTCTCA TGTGAGTGC AGGTCACCT TTAATCGAA  
GGTTGTGTG TGTCTCTAAC ATCTTCAGAG TGAGCTTAG GGTGCTTGA AGGATGGACA GTACAAGCAA GCAGCTACTT  
CCATGATACA GTGGGAAGAT AAAAAGGCC ATTCTAGTCA GCGTGACCT GTAAATCCAG CTGCTCTCC

SEQ ID NO:616: (Length of Sequence = 266 Nucleotides)

GAGATGGAGT CTGCTCTAT CACCCAGGCT GGAGTTCAGT GGCACGATCT CGACTCACTG CAAGCNCOCG CCCCCAGGTT  
CACGCCATTN TCCTGCTCA NCCTCTGAG CAGCTGGGAC TACTGGTGCC CACCACCT CCCAGCTAAT TTTTNTATT  
TTTGGTAGAG ACGGGGTTT CCGGTGTAG CCAGGATGGT CTGATCTCC TGACCTCGTG ATCCACCCG NTGGGCTCC  
CAAAGTGCTG GGATTACGAG CGTAAG

SEQ ID NO:617: (Length of Sequence = 376 Nucleotides)

ATAATAATGA AAAGTGAAGG GTGGGGTGC TGGCCACTC CCATTTCTTT GCTGGGTGG TGTGACCAC GGCGCCTTG  
TGCTCTTCC ATTGGTACT GAGGACCAAT GCCCTCATGG GCCAGGCCA CAGGCACCA CTGTINAGCC TCACCTGCCA  
CCTCTCTCCA TGTGTGCTTN TGTCCCTGG GCTGGCTG GGCATGGGG AGCTTATNTC CCGACCAGG GGCTTGCCA  
TGINTCTTC ACAANCCCCA CTCCCGCGG ACTGAGCTC CACTCTGTC TGGGCTGAGG GCTCTGTGT NGCCAGGAG  
CCCTCCAGC CAGTGCCAG CCCATCCAT CATCAGCACT TGTTTTAAAG CTTC

SEQ ID NO:618: (Length of Sequence = 352 Nucleotides)

GCCCATCCTG GCTAACACGG TGAACCCCGT CTCTACTAAA AATACAAAAA ATTAGCCAGG CGTGGTGGCG GGTGCCTGTA  
GTCCAGCTA CTTGGGAGGC TGAGGCAGGA GAATGGCATG AACCCGGGAG GTGGAGCTTG CAATGAGCCA AGACTGCGCC  
ACTGCACTCC AGCATGGGCG ACGGAGCAAG ACTCTGTCTC AAAAAATAA TAATAATAAT AAAATAAAAA GTTTGTTAGT  
ATTAGCAGAT ACATATTACT AGGTACCCCG CATGCTCAAT GAAGTGTGG GNTACTCINA AAAAGTGTCC AATCTTACAG  
GTGTGACTTC CTCTGGAAC GCAAATTCTT TT

SEQ ID NO:619: (Length of Sequence = 359 Nucleotides)

AAAAAAACG ACCCCACAA GGGGAAGGC CCCAGTGGG CCCCTGCCTG TNGTNCCTC TGGCTCCAGA GATGCTGCA  
TAGGCCTCAG CTTCTCACTG GCCAATCTCC TCTTCATGGG CACCAGCCAC TGCTAAACAT CCTTCCCTCA CTTCTTGTT  
AAGCTTGCTC CCCTGAGCCA CAGGTTGCAC ATCTAAACCT CAGTCCAGG GAAAGGAAGA ACCAATGGAA GTGCCAGAGT  
CCTGGGGCAA GCCAGAGCAT CACCTGTCAG CAAACCTCTG CTGGGCACTC TAAGCAAGCA CAGGACAAGN CCCAGAGTTT  
AGTGTGTCCA GTATCCAGCA TGGGACAGC ACATGCATT

SEQ ID NO:620: (Length of Sequence = 447 Nucleotides)

CTCTCTCAGC ACAGCCTGGG GAGGGGGTCA TTGTCTCTCT CGTCCATCAG GGATCTCAGA GGCTCAGAGA CTGCAAGCTG  
CTTGCCCAAG TCACACAGCT AGTGAAGACC AGAGCAGTTT CATCTGGTTG TGACTCTAAG CTCAGTGTCT TCTCCACTAC  
CCACACCCAG CCTTGGTGCC ACCAAAAGTG CTCCCCAAA GGAAGGAGAA TGGCAGCCTC CACATCTCGG GTTCAAGTGA  
TTATCCTGCC TCAGCCTCCA AGTAGCTGGG ATTGCAGGTG TGCACCACCA TGCCTGGGAT AATTTTGTGT AATTTTAAAG  
TAGGACACGG TTTCAACATG TTTGGCCAGG CTGGTCTTGG AACTTCTTGA GGTGTAAATG ATCTTNCCTC ACCTTNTGCC  
TTCCCAAGTG CTTGGGATTT ACAAGGTTT AAGCCACCG AATCCAT

SEQ ID NO:621: (Length of Sequence = 237 Nucleotides)

CAATACCCCT GGNCTCTGGG GCAGGTGTC TGGATCCTG GACAGGAGG TCAGGTGAT TTTAACCAG AGAGACCTGA  
TCTCATCACT GTCCCTTAGA GGGGAGAGAA GTTCGTNCCG GCCAAAGGG ACCAGTGTGT AGAAGTGTCT CTCCAGCTCC  
TTGGCGATGT CACTNGTGGT CCTGGCGTIN ATGGAGCCTA CAGGGGCCCT AGGACCACTG CCCCNTTGG CAGCGGC

SEQ ID NO:622: (Length of Sequence = 247 Nucleotides)

AGAAGGTCAA TAATAACAAA CTCTTCAAG GTAAAGCAGG ATGTTGAAA CCATTGCAAG GAAGCTAAAA ACCTTGAAAA  
AAGATTAGAA GAATGGCTAA CTAGAATAAA CAGTGTAGAG AAGACCTTAA ATGACCTGAT GGAGCTGAAA ACCATGGCAC  
GAGAACTACG TGATGCATGC ACAAGCTTCA ATAGACAATT CGATCAAGTG GAAGAAAGG TATCAGTGAT TGAAGATCAA  
ATAAATG

SEQ ID NO:623: (Length of Sequence = 315 Nucleotides)

AATTTAGGTT TGTTTTATTT AAGTTAATG TTAATTCAT GCTGTGTTT AGTAAGANCA ATACAGATTG TGTATCTGTG  
GCTCCAGTCA GATATCCAGT AGTACAAATN AGCTTCAAGT TACACATACT GANCAAAAGA GGTGAGCGA GCGAAGGAGG  
GGAGGAGTGA GGGGAAGGAG GTAGGGGAG GGGGAAGGAG AAGAAACAAA AGANTTGAAC AGGCATGCAG GCTTTTCCAT  
ACCACTTCA ACGCTAACCT GCTTCAGTGG GAGAGTAAAG TAGGCAAGAN TGAGCAGCCA CGGATTGTTG AACTG

SEQ ID NO:624: (Length of Sequence = 375 Nucleotides)

CCATGTTGGC CAGGTCTGGA ACTCCTGGCA TCAGGTGATC CGCCGTTTC AGCCTCCAA AGTGTGGGA TTACAGGCTT  
GAGCCACCAG GCCTGGCCCG TTAATATGT TATTTTAAA TGCATAGTA AAAAAAATAA AATTTTAAAT TGCTAGAACA

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TTAAATATCA ATACCCACAT TAATAAAAGC TATTGGGAG CCTTAATAAT TATCAATGGT GTAAAGGGGT CCTGAGACCA  
AAAAGTTTGA CTTCAACCAG TGTTTGAACA CTACAGATCC CATCTTGCCC ATGAAGCTTC CCTAGACATC CCCACCCAC  
CGTGCTCCNT TCTGCATCCT ACAATAGCAT CCACTGGTAA GGGCCACTTA TTTTA

SEQ ID NO:625: (Length of Sequence = 305 Nucleotides)

GTTCCTAGAT TACTCAAATT TAGTACTCTT CCATCTTTTC TTGTTGCTAT TCTTTTAAAA TCACAAGAAG TOCATAACTT  
AAGTAGGAAT TTGTATAATG TAACTTATIG TGAGTATATT TCCTTACCAG CTCATAAAGA ACTATGTAAA CTGGAATGCA  
TATTTTINAC ATAAAAATAG CAAAAAATAA AAAANCAAAA AAAAAACAGT ACTGGCCTAA TACTAGTINGA NTTACAGAAT  
ANGGGTAAAT ANTACATGNN CATCCTTACA GAGTGAGCAT AAACAATACA TGGTAATAAT ATTTA

SEQ ID NO:626: (Length of Sequence = 300 Nucleotides)

AGCAATCACA TAAGGAAGGC ACCTOGAGTC TAGTAACACT GTGACTCTTG CGGTCTCTTA GAGGTACTTG GTGGTCTTGG  
ATAAGATCTG GAAGAATTCT TTGGATTTC AGACATAGGC TCTGTGNTC TTCCCTTACT TTCTOCCAAA CAAATGGCAT  
CTCTCTCTCT CTCTCTCTGT GCTGAGCTGC CTAGAAGTGT GGGTGGGATC ACACAAGCAC CCTTNTGGCC ATTGCCCTTG  
GGACTGTGCT AGGTCAGACC TGAAGTCAGC ACAGCATTTG GTCTCACCA ACACCTGTGG

SEQ ID NO:627: (Length of Sequence = 369 Nucleotides)

GAAAAAGAGA GAGGAGAGGG AGTCAGGAGT GCTTTGGAAC TGGAGGTTTG CTTTCCACTG ACAACATCCA TATCTNCTGC  
TAATGCCAAC ATGCTOCCAA GTGTCTTAGT GGGTCCACA AAGTTGATCC AGCCAGAGAG AGTTGCAGGG ACAGTCAAGA  
AACCAGAGGT GCTGCCACCA TCCCATCAC TCCCTTTCCC AACTTCCCAG CCTTGCCCCA AAAGCAGCAG CTCAGGACAA  
CCTGAGATAC TACTGTNATG GGTCCCGGG AGGAGGACAG CAGGAGTCTG AACTCCAGAG GAGGGGGAAT ATGGGTAAAA  
CAGAGAGATG GCAAGGAGAC AAGCTGTNCC CAGACAGAGG GATGGGAGG

SEQ ID NO:628: (Length of Sequence = 310 Nucleotides)

TTTTTTTTTT TGAGACAAGA GTCTCACTCT ATCACCAGG CTGGAGTGCA GTGACATAAT CATGGCTCAA TGCAGCCTCG  
ACCTCTCAGA CTCAAGTGAT CCTOCCACCT CAACATCCA AGTAGCTGGG ACTACAGGAG AGCCACCATG CCCAGCTAGT  
TTTINACTTT TCTGCAGAGA TGGTGTCTCT CCATGTGCCC CAGGTGGTTC TGGGAAGTCC GGGGCTCCAG CGATCCTCTT  
GCCTCAGTCT CCCAGAGTGC TGGACCCACA GGCATGAGCC ACCACACTCA GCCCCAAAT CCATGATTTT

SEQ ID NO:629: (Length of Sequence = 443 Nucleotides)

CGCAGAGCAG AGGGTGGAAA GGCAAGAGT ACAAGTGAGC GAGCCCTTTT TGTGATGGCG TTGATCTGTT TACAAGGGGA  
CTGCCTAAAC ACTTTCATT AGCCCCACT TOCCAACACT GTTGCACTGT TGCAGTTAAG TTTOCAACAC ATGAATGCTG  
GGGACACAT TTAAATTAGA GCAGTGATGA TCAGAAAGTT ATTGTTGGGA AAGGAGGTTT TATTTTAACT TAAGTAGCTT  
GAAAAAGCTC TTCAAGGAGT TGATACAAGA ACTGAGATTT GAATTAGAGG ACCGAGTAAA GTGAAGAATC TGCGGGCAAA  
GTCCAGGCA GAGGGAAGAG CAGGAAATGA TTATCAGTA GACTTGCTCT CCATCTCTCG GCAAGGGCTA TTTACATTT  
TCTTCCACTC TCTTCTCAG CACATCTCCA CCTGGGTTTT CTC

SEQ ID NO:630: (Length of Sequence = 263 Nucleotides)

TGGATGTTGT GAAAAGCGAA CACTTATAGA CTGCTACTGG GAAGCTAAGT NAGTACAACC TCTATGGAAA ACTGTATGGA  
GATTTTTTAA AGAACTAAAA GTATATCTAC CATTTGATCC AGCAATCCCA CTGCTGGGTA TCTACTCAA GAAAAATAAG

TCATTACATC AAAACACAC CTGCACACAT ATNTTTATTG CAACACAATT CACAATTGTA AAGATATGGA ACCAACCTAA  
GTGCCCATCA ACCCAATGTA GGG

SEQ ID NO:631: (Length of Sequence = 221 Nucleotides)

AATTTINACA TATCAGTAAT TGTTTTTATA ATTTGTGGTT TINATGAAAC ATTGCTATGC ATTTATTAGG AAAAAGTGAA  
TTTCCCAACA GGTGAAGTGA AAAGNTATTT TAACTATTAT ACATAATCAA GATCCTGCCT CTACGGAATT AGCTAAACCT  
AAAAATGTTT GCATTAATGN ATAAATTCTT CCNGCATTC CTTGGGCCNGN TCTGGAGGTG G

SEQ ID NO:632: (Length of Sequence = 344 Nucleotides)

TGTGATGGAG ACAAATACIT CAGTATTGGG ACCCATGGGA GGTGGTCTCA CCTTACCAC AGGACTAAAT CCAAGCTTGC  
CAACTTCTCA ATCTTTGINC CCTTCTGCTA GCAAAGGATT GCTACCCATG TATCATCACC AGCACTTACA TTCTTCCCT  
GCAGCTACTC AAAGTAGTIT CCCACCAAAC ATCAGCAATC CTCTTCAGG CCTGCTTATT GGGGTTGAGC CTCTCCGGN  
TCCCCAATIT TTGGTTTCAG AATCCAGCCA GAGGACAGAC CTCAGTACCA CAGTAGCCAC TCCATCCTCT GGAATCAAGA  
AAAGACCCAT ATCTGTCTA CAGA

SEQ ID NO:633: (Length of Sequence = 378 Nucleotides)

GGTCAGACCT GAAGCCGGCA CAGCGCTGTG ACTGCCCAAG ACCCCCACTG TAACAACAAC CCAGCTGCCA CCTATTTTAC  
TCAAGSCCC AGGGCTCTCC AATTAGCAGG TAGTGAAGCC AGCCAGGCTT CTNTCCTTC CTTCAGTGCA GTAAGCTCCC  
CTGGTCCCTA GATGCATTCA AAGGTGCTGT CTGAGAGCCA GGGCTCTCAG TCATAAACCT TATAAATCTA CCTGGNGTTC  
TGTTCTACCA TCGCTGAGCT GGCAGTGAAT CCACCCGGCA AATCCCTTCC CACTNTCCCC TCCCCCTTN CCCAGGCAGG  
GTAGTCTGTT NCCACCTAGC ACGTCATCAC AGTCTCATGC GGGATTACTG CCAGCTTC

SEQ ID NO:634: (Length of Sequence = 28 Nucleotides)

ATCAGTGGTC TACCACAGNT TAAGTAAAGG GTCATATTG GAGTATCACA CATCTCAGTC TTGTAGAAAT TAGGNACAGC  
AATTAGGAGT CATGCACATA TANGAGATGT AATCCCAACC TTGACTATA GCTACTCTT GTNTTTTACA GAAAAGACTG  
TGGNGGAAGA AAACCTTTA CCTNTTNTT CAGGGAGAAA CTNACANCAC TCANCTGCCT GGCAGTGAAA ATNTGGCATC  
CAGTCCACTT TACCATCAGT GTTAAAGGAA ACCATCTCTG GTAAGC

SEQ ID NO:635: (Length of Sequence = 226 Nucleotides)

TTGGGATGAT GCTTTTATTA AACGGAAGCG TCCAAAAGG TCTGAGTCAA TGGTGGAGAG GGCAGTCAGC CCTGTGGCAT  
TTCAGGGCTC CCCACCGATA GTATCGGCA GTGCTNACTG CAATGTGATA GAGATAGATG ATACCCCTGA CGACTCCGAT  
GAAGGATGTG ATCCTGGTGG AGTCTCAGGA CCTCCACTT CCATCCTGGG NGTGCCCCTC CCTCA

SEQ ID NO:636: (Length of Sequence = 367 Nucleotides)

AACGCAATAA AAAGACAAAT TCCAAAATGG GCAAAGATC TGAATAAACA TTCTCCAAA GATATGCAA CAGCCAATAA  
ATACATGAAA AGATGGCCAA CATCATTCAT TATGCATTGC AGAAATGTAA GTCAAAACCA CAATGACATA CCAGTTTGCT  
CCCCTAGGN TAGCTACAAT CAACAAAATG GACAGCAAAA AGTGTGGTG AGGAGTAGAG AAATCTGAAC CCTCATGTAT  
TGCTAATGGA AACACAAAAT GATGGAGCTA CCATGAAAAA CTGCTTATCA GTTTGACCTC GGAAGTTAA ACACAGAAGT  
ACCACATGAT CCAGCAATTC CACTCCTAGG TATATACCCC AAGGACT

SEQ ID NO:637: (Length of Sequence = 384 Nucleotides)

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TTCATAAAAA TTTTACTTAA AATCTGTAA GCTAGATATT GACTATCCTT AGTTGAGTCA CTGAGGTTTA AACACAATGG  
 TAAGTCTTAA AGTCTGCTAT TTACAGAGCA TTGAATCTGT ACCAATTTGC AATAGAAAGC CTTCAGTATG CAAGAAGTTT  
 GCATGGGTAT TAAGAACACA GCCTAAATAA GGCATTTGAT CTAATCTGCA GGAAGAATTT TCTTCCCAA AACAGAATTA  
 TAAAAGCTTA CTTTAAACAG GAGGCAGAAT AATCTTTTGA GGAAACCATT TCATTCTGTT TCTACTAACC TATACCATCT  
 GAGGAATTCT AGGGAGGATA ATAAAANTCT CGTGTATTCC ACAGCAAAC TACATACCTT AAAG

SEQ ID NO:638: (Length of Sequence = 409 Nucleotides)

GAAATTTTTC ATCAGCTCIT GTTCTCTCTC ATTCITTTTG ACCTTGTAGA TTTATCCTTT TTTCTTAATT TATCTCACT  
 TAAITGGGATT TCAGGAGCAT ATGACTAAG TTTTCATTTT TACATGTATA CTGGGGAGTA TGACATAGAC ATCTCTGTAC  
 TTAGATATTA CTGATGTAAG TCTACTTTGA ATCAAATGAA CAGATGTTTA AAAAGTATTG TTTTAAATGAT  
 TTCCTCTGT GAGTTGGGGT GTGCTGCC ATCACCACCT CAGGACGGGT ATTTGAAAAT ACCTGGGNA AATGTAAACA  
 ATGCTCGGA AAACACTGCA GGATATTTTA ATTGGGCAGA GGGGTCAAGG GGATGGATTA ACCATTGGCG AATGTGAGG  
 GACGGGTCC

SEQ ID NO:639: (Length of Sequence = 197 Nucleotides)

GGTCTACTC ACGGCTCAAG AGCATGGCTC AGGAGGAGAT CCGCAGAGAG ATGGACAAGA TNATCGAGGA CCTGGAGCTC  
 TCCAACAAAC GGCCTCACT GTGTCAGACA TTGTGGGTG GCATGAAGCG CAAGTGTACC GTGGCCATCG CCTTGTGGG  
 CGGCTCTCGC GCCATCATCC TGGACGAGCC CACGGCG

SEQ ID NO:640: (Length of Sequence = 398 Nucleotides)

GAGAAGGAGT TCGCTCTTG TCACCCAGGC TGGAGTGCAA TGGTGGGGC TGGGCTCACT GCAACCTCTG CTTCCCCGG  
 GTTCAAGGGA TTCTCTGCC TCAGCTCTT GAGGAGCTGG GATTACAGGC ACCCGCCACA CACCAGCTA ATTTCTATT  
 TCCAGTAGAG ATGGGGTTTC ACCATGTTGG CCAGGCTGGT TTGAACTCC TGACCTCAGT TGATCTGCCT GCTCGGCC  
 CCCAAAGTGC TGGGATTACA GCGGTGAGCC ATGGGCACAC AGCTTATCT GCATTTTCAA ACGGGCCAGT ATGGATGGT  
 TTTACACTTA TACTINGAAG GTCATCTTT TNAAAAANG AACCTTTAAA ACCATTAACT ATATATAAAA ACTATATT

SEQ ID NO:641: (Length of Sequence = 402 Nucleotides)

ATAATTTTNA GCAAATGAT ACAAACCTNT NTAACCAAG TAGAAGATTG GTAGTTACAG TGAATCGTC AGGGAGTACA  
 GGGCGGCCAC CACTGGAGGG AGCTGAGGCC CTGGAAAAGG AGTCTGATTC TGTCTCTGCT TTNTTCCCA  
 GCGCGTTAC AACCGAGTTC ACGTGGGGG CCGCAGTCA GCGCCAGCG TGGCAGCTCT TGGAGTCTGT CGTTTATGA  
 TGTTCOCOC ACGAGCGTGG CTGGGTGAGT GGCTGGAGA GCTCCGGTG TTAACATTTG GATCTAGAC CGGGGGGACG  
 TGTCACTAGG TAAAGGCAT TGGGTAACCA GAGTAGATCA GGCCATGGCA TTTGTCTGGC CCTTTTACA GCAATTAAGG  
 GG

SEQ ID NO:642: (Length of Sequence = 395 Nucleotides)

CTTCAATGAT GCAATTCGAT TAGCTGTGTC TTCAAACAG AACTCCAGG ACTTCATGGA TGAGATTTTT CAGGAGCTCG  
 AGAACTTCAG CTTGGAGCAG GAAGAGGAGG ACGTCCAGA CCAGGAACAG AGCAGCAGCA TCGAGACCCC ATCAGAGGAG  
 GCGGCTCTC CCCACAGCTG AGGGGCTGG GCTAGGGGTG GTTGGAGCCC TTTTAAATA CCTTCCCTT CAACAACCTT  
 CCAGCTCTGA ATGGAGAAAC TCTTAGGNC ATCCCTCTT CTACCTCTG CAACCCACC ATCTATTAG GCTNCCACAT  
 TCTAGGGGCC GTATACAGG GGATGAGGGT CAGCAACCAG CAAACTCTN GGACTGTGTG GGAAGAATTT TCCC

SEQ ID NO:643: (Length of Sequence = 325 Nucleotides)

GGTATCTTAA AGCCTTTTCAG GGATTTCAT AGACACATTT CTTTAGCTGA AATCTATTCT CTCAGAAACT TACCCAAACT  
 TCTTAATAAT GINCAAATTC TAAGAAAGAT ATCATGGCTA CACAGCACCA GGNAGAGCAC ATTATTCTCTC TTCACAATTC  
 CCTTGCATAG CATCATGGCT TCCTAAGGGC TTTTAAAGTTT ATTGCTTCAA CTGATTCTCA TAAAATCTCT GAGATGCTAT  
 CTGGAAAGTA TTATTATCCC CAGTTTGCAG ATAAGGCAAC TGAGGTCTAG ACTTGCTAAA AAATCACACA ACCAGGTAAG  
 TGGGC

SEQ ID NO:644: (Length of Sequence = 373 Nucleotides)

CTTCACATCA GCAGCCGGAC GAGGTGACTG AAAATCCAAA ACAGAAAATT GCAGCAGAAA GCAGTGAAAA TGTGTATGT  
 CCAGAGAATC CTAAAATGAA GTTGGATGGA AAAGTTGACC AAGAAGGCAA TGATGTAAAA ACAGCAGCTG AGGAGGTACT  
 AGCTGGTAGA GACACATTAG ATTTTGAGGA TGTACAGTT CAATCATCAG GCCCGAGGGC TGGTGGTGAA GAATTAGATG  
 AAGGTGTTGC AAAAGATAAT GCTAAAATAG ATGGTGCCAC TTAAAGCAA TCCTNGAAGG ANCCAGAGGA GCGAAGGATG  
 CAGATCACTG CACCCGTACC CCAAAAATTG GAAAGTCCCC TCACAGGCCA TTT

SEQ ID NO:645: (Length of Sequence = 310 Nucleotides)

TTTTTTTTT AAGACTCAAG GTAATGAAAA CTATGAGTAG AATAGTAAGG TGTGACAGGG GACAAATAAG TAGATATAAA  
 ACTATGCTGC AATATTTTAG TTATTAAAGC TGGGAATAT GCAATGTAA GTAGTGCTTG GAACCAGAGA AGGTTCTATA  
 TTTAGCTGTT CTCTGTAGC TAAATCTGAC AAATTGAAAA ATATCATATT CTCTGCTCTA GGTACATTTT ATGTATATTT  
 TGACAGCATA TCAATATAT GANACATTAG GTTAAATAAA TTAATAATCCA GTGGGATAAA CTATATGGGG

SEQ ID NO:646: (Length of Sequence = 362 Nucleotides)

CTTGGGATTG CTAGATCAGT GTTTAGACA GGAATGCCAA GGCAGAAAAG AATCACATAT CCAGGACCAC ATAAAANCTG  
 GAGTGTATGT CATAACAAAT TTNCTCCTGT GCTTAGAAGT TTTATGGCTT TGGATTTTAC ATTGATGTTT GCAGTCCATT  
 TTGAGTACT TTTGTATCT GATATGAAAT ATACCAAGT NCATTTAAAA AATAAGATTA TACAGTTGTT TATGGAATGC  
 ATTTATGTAC ACGGGTAATC TGTTTGAAT TTGTGTATAT GTTAAACAT CTTTATTATA GTATTNTGTA AGAGTAGGTT  
 AATATTGACC TTGGGCATTT TTAACCAAG GGGGAATTT CC

SEQ ID NO:647: (Length of Sequence = 226 Nucleotides)

TTTGGCGTC AGATCTGTAA GTTTATTTGC TCAATGTACG ACAGCTACAT AATGNCITAC ATTCAIGATA TTCCATCACT  
 GAGGAACTG CTAAAGATGG TCGTGTGTG AAATAATTCC TTAGAGAAAC ACGGAGCTGG AAAATAATC ACTGATTAGA  
 CCTTAAAAAT AGTTCACCTGC ATAACATGNC AAAAAGCACA AAGGCTCATT CAGAGAACAT ATTTGT

SEQ ID NO:648: (Length of Sequence = 198 Nucleotides)

AACTAAAAAG TAAAACCTTT TACAAAACAA CAAGTTTTC TAAATTATG ATTTGTTATT ATAAAANCTA GTAAGAAAAA  
 ATTCCACCAC ATGAAAGCAT TTNCTAAAAT TCATACCCCC GTACCTATTT TTAANTACAG TTGGTAAATT GATTAGCTC  
 TATTNCAIT TTGANTGATC ATCGGTTTTA TTTTATTT

SEQ ID NO:649: (Length of Sequence = 337 Nucleotides)

ACATCTGCAG CCATATATGA GGTCCCTCAT GAGACTTAGC AACAAGGTGT GTTTAATGT GACAGTGTGT CTGATGTGTC  
 CCCAGCATAT TGGGACCACT ACACAGTGT ATTGTACAT CTGCTAGTA ACATTGAGTG TGTGGGTAAC TAAAGCCCTC  
 AGTAATTATT TTAATTAAAT TTTTCAAGCT TAATTCTGAT CTGTACTGT CATGATTTAT TATTCCTTGT GCTAAATCTC  
 TCAATGTCT TGCCTTGATT GATCTGTCAT TATCTATCAC TTAATAAAA TANTAATNC CTTTAATTAA GTCATGGTTA  
 AATGAGGCAC TTGTGTTT

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SEQ ID NO:650: (Length of Sequence = 286 Nucleotides)

GGGTGAAAG GAAAGGTGAC AGGAAAGATG TGTTTAGCAT CCATGAGCAG CTGGGGAGAG TCTTCTGT CTGTAAACG  
 CATCTGAGAA GATTAGGAAA AAAAATAAAC AGAGCATCAG TTCTTTGAAT CTAAAAGACT TTNTTCTACT AAAATTTCTA  
 CCTCAAATT CTCAACTAAT GAAGANTGTT TACTTTTGT TTAACCTCAC TTCATTTTCC CAATTAACCTA TTATCAAAAA  
 AGTTAGTGCA TTGTAAATA AGNTAATAAA GGNIAACACA TTATCC

SEQ ID NO:651: (Length of Sequence = 360 Nucleotides)

GATAATGTAA ATTTTGTCTT CTGGGCTTGT CATCAGGATT GCAATTTTNA GATTTAGTIT GCTAATGTIT TGGCCTTTGA  
 AAAATTATAT AACTTTGGTT TGTTTGGTIT TTCTTAAGTC AAAACAAGGA AATAAAATCA CATTTGCTTT CCAAGAAAAG  
 ATAATGTTTA AGTGGTGTIT TAGTGTITTT TGTCCTTTGGG GGTGGGAGGG GGTGTGTGGA ATACACAAAC ACACACACAC  
 AAACACACAC AGTCTATATA TAANCTTATT GGAGCCATCA CTATATTTTA AGGAAAATGN AAATAATCTA TTGAAGCTTT  
 AAAATTAGGA ATTTTGTATT TAAGCTAAGG AGCCTATTTT

SEQ ID NO:652: (Length of Sequence = 353 Nucleotides)

GTGGTGGGNN CCTGTAATCC CAGCTACTTG GGAGGCTGAG GCAGGAGAAT CGCTTGANCC CTGGAGGCAG AGGTTGCAGT  
 GAGCCGAGAT CGAACCACTG CACTCCAGCC TAGGTGACAA GAGCGAACT TTGCCGGCAT TTACACTCTC AAAAGATTTA  
 ACGCAATTAC AATCAAAAAA CACTTGTCTAT ATATAACACT TTTTCACATG GAAATAAATT GGTGGTTTAA GGTTTACAAAT  
 TCCTTTGAAT AAAATTTTCA TTATTAGTTA CAAAATGCTA AGACAGATTG AGGTCTCAA GAAAGANCTT TGAGGAAAT  
 TTATGGTTT AAAGGGACTT TCACCAATA TGA

SEQ ID NO:653: (Length of Sequence = 224 Nucleotides)

AAGACAGGGA NTACTTTATT CAAAACCCAT CACAGAAATG GACAGCTTGG GTCTGTAAAC AAGCAATTCAT GTTTTAGNGC  
 ATAGGTCAGT AATTGTATAT GAGAGCATAC ACTGCTACAT ACAAATTAAC TGNTCAGACC ACAACTTTTC AATGTTTAAA  
 ACAGATAAG CTTCCTGTA AAAGCAGCAC CTTTGTGAC GNTTTAACTT TAGTATTCCT CTCC

SEQ ID NO:654: (Length of Sequence = 353 Nucleotides)

GTCAACTCTA TTTTCCATAT GAATTATTAG ATTTGGTGCT GTCTGTGAA GTAACTTGAT ACGATAGATG TGTAGTATGA  
 ATTTTGTCCA CATGGTTGTG CCTTGGCAG AACTGCACT ACCTGAAATG GTTCCCTAAT TTTTCTTAG TATTACTATC  
 CAACACTTCC TCTCATAATC ACTAGTGTAT TGTATAATG TTAAGTGTCC TTTATTCATA TATTTAAATT AAAAGAATAC  
 TCTGGTAGGA TTTTGAGGGC CAATAGTGTA TTCCACTGT TTGAGGTATT AGGAGGGCTA TTTACTGATA CCTGTAGTGC  
 CTCCCATTC TGGTTTATCA TGCACCTCTA AAT

SEQ ID NO:655: (Length of Sequence = 365 Nucleotides)

GAAACTNACT TCACATTCT CCAGGGAGGG ATGCTTTGGA AAAACTGCTC AGTGAGATGA AGCACAGATC TGCTTTTINAT  
 CCCTTTGTIA CCTTTTAAA GACATAAGGT ATGTTTGTAC ACTGGAGTAT ATATGAGGGT TGCTAACGTT TAGGTTGAAA  
 GAGCTGCTGT TGTCACAGC TTATTTATTT NCCACCCATT TTTGTCTCT GGTCTCATCC AGTTACATTT CCTGGGATAT  
 GTTTTGGAG GTTGCTCAGA TCACGGCACT AGAGTCCCTT TGGGTTTCTC CTCCCTCTC TGCTATTTG GCCTCGCCT  
 TGACAAACAT TCCCCACATT CACAACCAGG CCTTTGGCTA AATGT

SEQ ID NO:656: (Length of Sequence = 372 Nucleotides)

GTCAATGAGTC TGAGACCAGC CTGGCCATCA TGGCAAACC CTATCTCTAC TAAAAATACA AAAGTTAGCT GGGTGTGGTG  
 GCGTGCACCT GCATTCTCAG CGACTTGGGA TGCTGAGGCA GAAGAATCGC TTAACCTGG GAGGCAGAGG TTGCACTGAG

CCGAGATCGC TCCACTGCAC TCCAGTCTGG GTGACAGAGT GAGACCTTGT CTCCAAAATA AAAGAAATTT ACTGCAAAGG  
GATGTTGCAT TTCAGGTGAA TGTATGTAGC CTTTCAGAGG CCGGGCTATT TATTAGATGT ATTTTATAAC TGAGGGTTCT  
AGGTAAACAC AAGCCAAACA GATCCACCAG AAGCCTAGAG CTGTGGACTC TT

SEQ ID NO:657: (Length of Sequence = 334 Nucleotides)

GGTTGTGGAA AAAAAACCT CCAGATAAGA TTGTGCCTGC TTCATTTTCT TGTGAGGCTG CCCAGACAAA GGTACTTTTC  
CTGATTGGGG ATCTATGTTC ACCTGATTCA GATACTGAGC TTCGAAGTCA GGCAGTGGTG GATCAGATTA CCAGACATCA  
CACCAACCA TTGAAGGAAG AAAGAGGGGC TATTGATCAG CATCAAGAAA CTAAACAAAC AACCAAGGAC CAATCTGGAG  
AGTCTGATAC ACAGAAATG GTTCTGAAG AGCCCTGTGA ACTTCCCTGT TGAATCATT CAGACCCAGA AAGCATGAGC  
TTATTGACG GATA

SEQ ID NO:658: (Length of Sequence = 286 Nucleotides)

ACAAACCAAC TGCATTTCTT TCTGGATATT GTTGAACAAA AATAGCATTC AGTTTACCCN CTAGTGCTAA CAGAAGGNC  
TCAAGCTGTT CCCCCATCAT GGGGCGAGCC CTTAACAGAG GGCTGCACAA ATCTGCAGTG CTGCTCTGGG GAAGGCTNCA  
AAGCATTITT TTCCCAAGAA GGGATGCTGT TCANGTCTGT TAGGGGAAGC ACACCGNCTN TGCCCTGGGCA CAGATGAAC  
GCCCTCAAG GCAATCATCA TCTTTTTTCT AATAGGGAAG GTTTGG

SEQ ID NO:659: (Length of Sequence = 321 Nucleotides)

GGTCTTTATA TGTTTCCGAG ACAGGACTGA AACTCCCTGC CTCGAAGTCA TTTTCTAAG TAGCTGGGAC TATAGGCTGT  
TCTTTTTTTT AAAGGAAGGA TTTTATGTTT ATCATGAAGG AAAATAA ATTTGGCTAA CTAAAGAGT TATTATCAG  
GAGACACTAT TAAAAAAGG CAAATCAGAA ATTTGGAGAA ATTTTTA ATACTGATAA TAAGACAGAA TTGTACCCTG  
TAACCATAA TATGTAGAAT TTCTACCATA TCAATAAGGT AATAGTTTCT GTTGCTCCAC ATCTCTTTCG ACGGTTGGGT  
A

SEQ ID NO:660: (Length of Sequence = 302 Nucleotides)

TTTGTTAAGG ACATAATGTT TTGACTGGG GATCATGTTT GGCTGATGTA AATATTAAATG CCAAATAGG AGCTAGGATG  
AAAGTAACAC TGTAATTAGT AGTAGAATTT ATTTCAATTT AAAATGTGTC ATGACGTAAT TTTTATGGCT TGCTCAAGC  
AACATTTTC AGAGTGCAAC CTCATTGATG CTACTCAGAG AGACGTGGAT GTGCTGTAC TGTCTTCTAA CTCTGCCTAC  
TACGTGGCCT ATTATGATGA TGAAGTTGAT AAAGTAAACC AGTATCAACG NCTAAGTCTA GG

SEQ ID NO:661: (Length of Sequence = 249 Nucleotides)

AAAAAAAAA ACTCTCAAGG GTCTAACTTT ACCCATCATA AAATAATTTT GGTGCAAGGG TAGTGGCACA TTTTATTTAT  
TTGGGATACC ATGCAGATGC AACCTAGCCC CATTCTTTAT GCAAAGTAGA TTATCCGTGC ATTCTTCTG CATTGNTAGT  
GAATCCTTAC TGGGNGAAC TCATTCCATT TGGCAACAAT CTTTAATGNN CAGGCAATAT ATAACATTGC TGAAGTCTCT  
TAGCACTAA

SEQ ID NO:662: (Length of Sequence = 340 Nucleotides)

TTTTTTTTTG GCAGCCTTGT AAGGAGAACT TCACCATTTC CCAGCACATC CCTATGTGTG CGCCTATTTT AATGCACCTC  
TCTGAAACAG AGACCTTTTT GTTCACAACC ATAATAAG CTGGAAAGTC AGTCTTCAGG CAAGGCGAGG GAGGAAAACA  
TCCCATTAGA ATTTTTTCAG GAAAGACTTA TGGNAAAAA TATCTCTCTC CCACCTCCTT TTATCCCCAT GAGACACAGT  
TTCCCACTGT AATCAGGGTA ATATGCATT NTAGINCTG ATATGTGATA CATTATGTG ATGGCAAAGA TAAGTCTGTC  
TTGCATGCAG GGTACTAGAG



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SEQ ID NO:663: (Length of Sequence = 325 Nucleotides)

CACAACAATT CTATGAAATT AGCTGGGGAG ATACTGTCTT TATTTTTCAC AGCTGAAGAA ACCAAAGCTT TGGGAAGTTT  
 GTGACTTCTC TGAGATCACA GCTGGTGATA GAAGGAGCTG GGACACGGC TTGGGTGAC TGGCTTCTGG TTTTGGTTCT  
 CTGGCTTCTA GTGCTGGAAG AAGCCCTCTC TTTCCTTCT CTTTCTCAG TAGCATCTGA CTCITTTTCAAT AAGCAAACAG  
 CTGTATAAAC AAAGCCCCCA TTTTGGTCAA GCACAGGGTG AATGTGATAT TGTTCACCAC AACCTTATTC TNCATCAAC  
 AGCCG

SEQ ID NO:664: (Length of Sequence = 300 Nucleotides)

TIGCTGAGAG AGATGATGTT TCATGGGTGA TGTCTCTGGA AGAGATTGGA TAGGACCCAA GCACAGAGCA AGAAATTGGC  
 TTTAGGCAAG TCAGATTGT CTATACTAG TTAGGAGTAA AGAGAAATGG ATGATACAGA TGCAGCTATG TTGTAGGAG  
 GGAAGTGGAG GGAATTTCTG TGTGATGGCT TTAGTAATGT AGGCAGCAAG GTCAACTACT GACAGTGAGA GGAGAAATTC  
 GGGGAGGCTG GTACAGTGT GAAGTAATAG GTCATGGGGA GGCAGATGTT TGTTGGGTGA

SEQ ID NO:665: (Length of Sequence = 327 Nucleotides)

CAAATAAGAA CCAGAGAGA GGGAGAGATT CACAGACAAT AGCTTAAAAA GTCTAGAAAT TATAGACCGA TTGAGGTCAG  
 CAAGAAACAA ATTATTCAT ATATCCCTG AGGGCTAGAG CCAGACTTTC CCTATGATT CCAAAATTAC TTGCAGTTT  
 CATTAGGGTG AAAGGCAGTG CAGTCTCATG AGTTCAGAAA GTAAAGGTTG TTCTTAAAA TTTAGATAGA CTTGACAACC  
 ACTTAGGATG GCATTTTGGC ATTCTGTCCC TGCTCATCAA AGAAGTTGCT CAAATTTGTG GGTAGAGGA ATGAGGAGCA  
 AGAAGTA

SEQ ID NO:666: (Length of Sequence = 319 Nucleotides)

ATTCCCAAGG AGAGGCTGAG ACAGAGAGGC TTGAGCTGT TCCTCAGCCC CCTACCTAA CTCCTCCCT ACTGTTGATC  
 AGGCTGGTCT CTAACCTCG AACTCAGTG ATATGTGTG CTCAGCCTCC CAAAGTGCTG GGATTACAGG TGTGAGCCAC  
 CATGCTGGC CTGGGTTTAA TCTTAAGGTC TTGTGTGTC TGTTCATCT GCATGAATAC ATTTCITCA TTTACTTACG  
 TCTTAGCTTA AATGATACCT CCTCTCTTT CCTACTGCA TTATCTTCCC TTGTACTCC ATACTCAGAT TTCATTGCA

SEQ ID NO:667: (Length of Sequence = 288 Nucleotides)

GGTGGCAGGC TGCTTCANT NCAAGCCAG GNGTTCTG ATGGGTCAGG GTGGGGAGGC TGCACACCAC ACAAGGTCAC  
 CCTACTCTAC CTCTACCCA CCTACCAACA GCGTGAGCT CACCACTCCC CCAGGGCATG GGACTCTTGA TAATTCACAG  
 TCCATGAAC CCTACAATTA TIGCAGTGG TATGANTCCT TCTATGAAAG TACTTCCCCT GAGTGTGCCA GCGCTCAGTT  
 TGAAGGTCCC TTAAGTCTC CCCCAATTAA CTATAATGGG GATATTTT

SEQ ID NO:668: (Length of Sequence = 212 Nucleotides)

TCNTTTCINT TTCTATCTA TCINTTCAC CATGTGCTT CGGGGCTCG AACATAGTAG ATGCTCAATA AATATTGATT  
 GAATGAATGA ATGAATAAT CINTTACAC CTCTCATGCT TCAACAGGG AAAGGCTAGA TTATTAGAA GTCTGTGCGG  
 GGATAATAAT NAGCTCAGTG GAAGCCCTCT AGTCTCACT CGAGTTTCTC CC

SEQ ID NO:669: (Length of Sequence = 281 Nucleotides)

ATCTTTTCAA CCTATCAAT AAGATGTAT GAAAGATTGG TTCTCTGTT TACAAGTAGT ATAGAATCTT TTTTGATCTT  
 TGACTCTGTG CTGCTATCT CATCAATGTT GTTGCTATTA ATATCTGTCC TTTAACACTG GATGTGGGA TCTTAGTAAT  
 GTTCTGATA ATAGGATTTT CAGCAAACCT TCCATATCCC TTGAAGATAT GGTAGTTTAT ATTACTATAT CGATAACAGT  
 TTTGCTGTG GAGATTTGAC TAGTTTLAGG TGTTTGAAG C

SEQ ID NO:670: (Length of Sequence = 234 Nucleotides)

AATAAGTGT GGATATTTGA TTGTTTTCTT TTCTGATCTT TATGCTGACT GCAGTATCAG ATACCAITTC ATTGTTTTAAA  
AATCTTCCTT TTTTTTTTTT TTTTTTTTIG CATTTTGCTC TTTTGTCATT GTTTCAAAGT CAAGTTGATG GCCNCAAAT  
TCCAGAGGCT AAGCAATGCA GAAGTTTCAT CTACTGGCAG CTAGTTTTAT TTCTTAAAAA TACATTAAAT TAGG

SEQ ID NO:671: (Length of Sequence = 252 Nucleotides)

CCTGAAATGT AAATGTTTT TAATATATTT AAGAGCACAC AGAAGTCTTG ATTTATAAAA AAATAAATAT ATAACATGAC  
AAATTTACTG ATGATCTGG GGCTCTGAGG TCAAACCTT TAAATGATCA GTGAAAACAT AAAACATCCA TGATCTGTTA  
ACACACACAG GGGCATATTC CAGTTGTAAA AAACAANTTC CTGAAGGCT CAGNACGTAC AAAANTCAGT NTTTNTGGCA  
GAAAGCACAT CC

SEQ ID NO:672: (Length of Sequence = 366 Nucleotides)

CCATCCAAT ACTTACTCAA TCCTCTTGAA ATCTGCCTTT TGTAATGTAA CTGATAGGCC AGCGTTTTCT TTCACTGTGG  
GAAATAAAG CTACTTGGTT GCTTTAGGGA GGGCAACAT GTCAGCTGCA TAAGCAGCAA GAATATTATA TTTNATTACT  
AGTCCACCCT TAATAAGAG AGAAACCTTA GGAAATGGAA AGAGGTGTCT GTTTTATATT TCCTTTGCTT TTCAACCATT  
GTTTAGACAC TCTCCCTTCT AGTGTCTGGA GAACCTTCAT GGAAACTCTG TTCAGGTTCT TGACTCTCAG CGACANATGT  
GGAGGTCTTT GTGGTCTTAG CTCTCTAGGC CTGAGAATCA CATACA

SEQ ID NO:673: (Length of Sequence = 349 Nucleotides)

CCTCCCATCT TGGCTCCCA AAGTGTTAGG ATTACAGGCG TGAGCANCCA CACCCTGCCT GGTGTGTGAC TCTTTTAAAT  
ACTAAGTTTT TAATGTAA TGCTGCTTT AGATACTG TAAAAATACA CCTATCAATG AGTTTTTTTA TTAATAACAT  
TGCAATTGTA CTAGCTTTA AATACTAAGC AATAATCAG GCTTCAATGT TGGTTTATAG TTTTCTCAT TCTTTTCAAT  
AATACCTCTG TAAATGAAG CAGTTACTTC CATTTTCTG AGGTGAGATA AGTCCCTGC ACAAATGTTA TAGGNCCAGT  
AAGTGAGGAC TGGAGCTCTG GATCCTAAT

SEQ ID NO:674: (Length of Sequence = 256 Nucleotides)

GCACTTTGGG AGGCGAGGC AGTTGNTCA CCTGAGGTA GGAGTTTGAG ACCAGCCTGG CCAACAGGT GAAACNGIN  
TTGCTCTAAA AATACAAAN TTAGCGGGC GTGGTNGTC ATGCCTGTAG TCCAGGTAC TCAGNGGCT GAGGCAGGAG  
AATCACTTGA ACCGAGGTG GGGCAGNGG AGGTTCAGT AAGCCAAGAT CGCGCCATG CACTCTAGCC TAGGTGACAG  
AGTGAGACTC CATCTC

SEQ ID NO:675: (Length of Sequence = 292 Nucleotides)

GAAGTCATT TAGACTCTCA ATTTTAAATT AATTTGAAT CACTAATATT TTCACAGTT ATTAATATAT TTANTCTTA  
TTTAAATTIN AGATTATTTT TATTACCATG TACTGAATTT TTACATCTG NTACCTTTC CTCTCCATG TCAGTATCAT  
GTCTCTAAT TATCTTGCCA AATTTTGAAA CTACACAAA AAAGCATACT TGCATTATTT ATAATANANT NGCATTCACT  
GGCTTTTTAA AAAANTGTTT GATTCAAAAC TTAAACATAC TGATAAGTAA GA

SEQ ID NO:676: (Length of Sequence = 392 Nucleotides)

ATCAAAGATT GCAAACATTT ATTTTGATCC TGGACTACAG TGTGGGGATC ATTGCTATGT TGGCTTGCCT TTNCTATCCA  
AATCTGAACC CAAAGTGCAG CCTGGTGTAG CCATGCAGGA AGATATGTGG GATGCTGACT GGGATTTGCA TCAAAGCTTG  
TTCAAGGGAT GGACAGGAAT AAAGGAAAT NCAGGTCATA GATTGAGTGC TATATTTGAN GTAAATACAG ACCTTCAAAA

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CTGGTTCCTT CTGGTCTGAA ATTAGAGTAG ACTCGTCTG AGTACTTGGC AAATGACTAT TTGATTCTCT GATTCCCTGG  
NCTCCATGCT CACCAGATGC ATAGCAGGGA TCTCTCTAG NCACTCACAT CCAATTTTCA GG

SEQ ID NO:683: (Length of Sequence = 329 Nucleotides)

GATTTTAAAT AGTTAAAACA TTTTMTTAAA TCCATAAGTA ATTCTTACTC TACTCATTTA TACACACATA TACTCACATG  
TACACAGACA TACCTACACA CACACTTATA AATACATGTA TACACAGAAT ATAGTAAGGT CTTTTATCCC TTTTCAATGA  
AATAAATATT GTATTCTATA TTTAGNATAA ATAATGTTGA AAAAGTGATT TTGGAGAAAG GTTGAAATGA TTGAGTCTTA  
AGTGTGTCAA TGTATAATCT ACCCCTTTCT AAACATCGTG TTTTAAGTAG TCATCTTACT TCAGAAATTA GAGGCTCAAT  
GTGTTTAGG

SEQ ID NO:684: (Length of Sequence = 281 Nucleotides)

AACATGGCTG ANITGAGATT ACACGCCAT GATACATTGN CTGACAGCAC TTCACATTTT CCTGAGTTG GGGACAGAAA  
TCACACTGCC CAAATACATT ATCTGATGGC TCCTCATGTT TCCCAAAGT TAGGAAAGGA GGTCTATAT ACATACATGC  
ACAAGTGCAT ACACACACAC ACACATACAC ACACACACAG TGCTAGATGA GATGTTGANT GNCATAAGGA AATGAAAGTN  
CCATCTCTCT NTINCCTACC CCTGCATCT GTCCCTTAT A

SEQ ID NO:685: (Length of Sequence = 324 Nucleotides)

ATTTTAAATA ATTTTAACT AGCTACAAA TGTCAATCAC TTCACAACT GACAGAGGAG ACAGGAGGAA TTTAATATTA  
CATGCTATAA TGATATTTAT CTCACAGTTT ATATTTTATT CATTATATAT ATTTTMTTAA AAGGTTTCTT TATCAGCTAC  
TAAACATCTC AGCAATTTGG TGTGCATAGC TCTAGATTAA GCAACAAAGN ATTGTACTGA TAACAAACCA CAGGGGAAAT  
GGTGGTTAGT AAGAGTCAGC CTTATAAAAT TTACATCCAC ACTGTTTTCA CAGCAAGNTT GCTCTCTCCA AAACGGTGEN  
CATC

SEQ ID NO:686: (Length of Sequence = 380 Nucleotides)

CGAGGAGGAG GAGGAGAAAA TTCCCCAGA TTCCGGCAGG CCCGCACCCC ACATTCCGTC CTGTTTTGAG AGGAGGAGGG  
AAGAGAAATA AACGTGGCAG CGCATAGAAG GCCAGCAGGG AGACTGCTTT CCAGACACCT CCGGCCACCA CAGCCGTTCA  
CCCCCGTTT TTTTCAGTCT GGAAAAGGAA TTCCGGTCTG TTTTCTTTT GGGCTCTGTG CAACINCAGC TACAGTGGAA  
AAAAGCAAAC TGCTCTTGAT CCCAGGCCCT GCCTAAGCCT CAGCAGAATC TTTAAGCCTA AACTTNAAGA GCCTCACCCG  
GACGAGCAGG CATNCCTTAA CCTTAAAGCA ATCCAGTTTC ACGGCTGGT TCAGTGAAT

SEQ ID NO:687: (Length of Sequence = 305 Nucleotides)

GACACTTCCC CTCTTTTATG GAAGCATAGT AAGATTTTTC CTTTATGGCG ATCATGATGG AGAAGTATAT GCTACAGGAG  
GNGAGGTTCA AATTGCAATG GAACCTCAGG CACTATATGA TGAAGTAAGA NCTNTGCCAA TTGCAAAGCT GGATAGGACA  
GTTGCTGAGA AAGCTGTAA AAAATATGTA GAAGATGAAA TGGCAAGGCT CCTGATAGA TTGTCAGTAA CTTGGCCTGA  
AGGAGATGAA TTATTGCCTA ATGAGATTAG GCCTGCTGGA ACCCTATTG GTGCGTTAAG AATTG

SEQ ID NO:688: (Length of Sequence = 390 Nucleotides)

GAAGTCATAA GGCCTAAATA TTAATCCAGT CTGTGACAAC GACAAGGTGA ATACAAGCCA GTCTCTACTT CTCGGGCCT  
CTGTTTCTG CACTTTATAT AAAGATTGGG CAAGATGGTC TAACTTAAAT TTTATGATTC ACTAACTGA TTTTGTATGG  
GGCAGATTTT NCTTCGATGA AATATTACA AATAAGNCAC TCAAATAAAT CAGCAATGGG GTGCAGATGA GGACTACCGT  
TTCTACAGCA AAATATGGGT GAACTCAGTA AGTGTAGGNA CACAGAAGTT AATGCTGACC TCTTGCAATG CATGTATGGG  
ATATTAAATC ATTTCCCTGCC TTCCATTTC A GGGGTGAGGG AGGAACAGCT GTTCCIGAAC TCTTTTAAGG

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SEQ ID NO:689: (Length of Sequence = 315 Nucleotides)

GATTTAAGTG TTAGCATTTC TAAACTTGAG ACTCTAACAG TAAAAATAAA GTAATCTGAA ACCTGTTTCC ATGGGTAAAA  
 CACTCTGCCT GGTATTCTTG TACACAAAT TTACTAAATA TGTAATATC ATAAATGAA AATATCACTC CCTTCAATTT  
 CTTTGGCCTT CACAAATTC ATGTGACTAT GATCCTTTTC AATAATACCT TCAATGACAT TGTGCTTCTT TAGAAAAATC  
 ACTTAAGTTG TAGCATACAA TAGTTAACAT TAGTCCTTTT ATTGCTATGG TATATGCTAA TTTTITTAAG AGGGG

SEQ ID NO:690: (Length of Sequence = 291 Nucleotides)

TTAAATACT CCATATATTT NAGAAGCAAT TGAAATGCA TCCATGTATG TNATTGAGC GTTACTAGAA ATTTATTTAT  
 ACAATCCAT ATTAATGTGC TAATAAGTGA CAAATATATA TATAGTCATG CACTGAATAA TGATGTTTTG GTCAACGATG  
 AACTGCACAT ACAATGGTGG CCCATAAGA TTAAATAGA NCCAAATTT CCTATGGCCT AGTGATGCTG TAGCCATCAT  
 AATGTTGGTAG TGCAACCCAT TACCTTTTCT ATGTTTAAAT ATACAAATAC T

SEQ ID NO:691: (Length of Sequence = 451 Nucleotides)

TTGAGCATCC GGAATATGGA GAAGTAATTC AGCTACAGGG TGACCAACGC AAGAACATAT GCCAGTNCCT CGTAGAGATT  
 GGACTGGCTA AGGACGATCA GCTGAAGGTT CATGGGTTT AAGTGCTTGT GGCTCACTGA AGCTTAAGTG AGGATTTTCT  
 TGCAATGAGT AGAATTTCCC TTCTCTCCCT TGTACAGGT TTAAAAACCT CACAGCTTGT ATAATGTAA CATTGGGGT  
 CCGCTTTTAA CTGGGACTAG TGTAACCTCT TCATGCAATA AACTGAAAAG AGCCATGCTG TCTAGTCTTG AAGTCCCTCA  
 TTTAAACAGA GGTCAAGCAA TAGGCGCTG GCAGTGCAA GCCTGAAACC AAGCAATACC GTCATGTTTC AGCCAAGCCC  
 AGAGNCCTAA GGTTCACAA CAACTATGG NCCGAACCT CCTCAAGTTC T

SEQ ID NO:692: (Length of Sequence = 363 Nucleotides)

GATTTTNTGA TTATGATAT TAGAAATGTT TAAATTAAG ATATTAACAT TTCATGAAGC TGAGTGGTGA GCACACCAGT  
 TTTATATTCT CTCTATATAA CTTTGTGAT ATTTGAAATG TTTTCTCATA AAAAGTATTT AAGCAAGTTT AGGAAAGAAT  
 ATTGATAAAT GAAATCTAGA GACCATCAA AGCCAATTC ACCATCACAA AGTATAATG TGTTCAAAT ATAATTGA  
 TTGTGTGACT GTTGCAATTT CTCTTTTGTG TTGTGTGTA TGAAGCATC TTAAACAGTT GCCTTTCAA GCTGTTATCT  
 TTGATANTAA CATACATTAA CCTAACATTG TGGACTCTG TTA

SEQ ID NO:693: (Length of Sequence = 269 Nucleotides)

TTAAGGGTCC CAAGACTGCT CTAACAACAA CACCCATTC CATAAATATG GNTCAATAAA CACTTATTC TTTTATATA  
 TTAGACTCTA TTGTAGAAT TGTTTAGGT TTATAGAAA ATTGAGCAGA TAGTACAGAA GATTGCCATA TACCCCTCAC  
 CCACAGAAAT TCACAATTAA CCTGCGATT AAAGTCTAAT GTTAATATGA TATATTAGT ACAAGTAGTG GGATTATATT  
 GATACATTAT TATTAATTAA AATCCNCA

SEQ ID NO:694: (Length of Sequence = 330 Nucleotides)

GGCATAGTCA CTTCAGACA TGGTGGCTC TCCATGTGGA GTAGGTCAAA GTCTCGTCC TCCTGGCCA GGTGGAAGCT  
 CCAGAGGGAC ATGTTTCAGC TTAGTACAAG GTGGCTGACA CTACTCCTCT GTAGGAAGAG GCTGGCTGGA GGTGAGGGCG  
 CCCACTCAG CCTGTACCA TCAAGAAGTA TTCAGAAAGG ATGTCTCTGG CATCCACAAG ACTACTGGGC GAACCACT  
 GCAAAATGA AAAGTAGCT ACACAATTA AATTGGTCTT AAACAAGCAA ATAATCCAGC CATTTGGTAC TCTGGGAATC  
 TAGAGTGCAA

SEQ ID NO:695: (Length of Sequence = 344 Nucleotides)

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CACTGTGACG GATGAGTGGG TATTTCTTTG TACCTTGAGC TCITTCATCC TACCTTGGTG GTCAAATGTG AGAGCAAGTG  
 CTTTGGGGCT CAGAGGGCAT CACTCCAAGC ATTCTGCATG GAGTCTGTG TGGTGAATGT NCTTGCTGGC ATCTTGATCA  
 AGGACTTTGT CATCATTAGC CATCAAATGC TTGTTGGTCC TTCTCAACCC TGTAAATGTG ATACTTAAAA AACTGGAAAC  
 ATCCTGACAG AAACAGTCA GAAAGTGGTT GTGTGAGCTC TGGTTATCGC ATTACAGTTA AAGTTGGCAG ATAGGTTCTG  
 TATTCAGTGC CCCATCAAAA ACAG

SEQ ID NO:696: (Length of Sequence = 324 Nucleotides)

CTGAACGTG GCAGATAAGC ATTTTGATAT GCTGCTGGAT TCAGTTTGCC AGTATTTTAT TGAGCATTTC ACATCGATG  
 TCATCAGGGA TATGCGCTG AAATTTTGT GTGTGTGTG TATCTCTGCT AGGTTTTGGT ATCAGGATGA TGCTGGCCTC  
 ATATAATGAC TTAGGGAGGA GTCCCTCTTT TNCATTTGTT TGAATAGTT TCAGAAGGAA TGTTACCAGC TCTTCTTTGT  
 ACCTCTGGTA GAATTTGGCT GTGAATCCAA TAGACACAAT AAAAAATGA TAAATGGGAT ATCACCCTG ACCTCAGAGG  
 AAAT

SEQ ID NO:697: (Length of Sequence = 341 Nucleotides)

AATTAATCAA TCAGCCATT TGGTGGCCGA AATTTATAAG GCAAGTAATA CTTTATGTTT CTTTGATAGA CACCATGATC  
 AGAAACATAG TCTCTTCTT AAAGGGAAAA TAGGAGTCT TCTGAGTCAT AACAGATGCA TGCTATAAAT TCTCTGAGTC  
 TTCATAAGAA ACACAAGCAA GATTTCACAG AGGCAGTGA ATTTGAACTG AGTCTTGAGA AATAAGCAAT ATCTGAACAT  
 GTAGAAATGCA AAATAAGGA TAAGCAAGTG CTAATGCCCA GAGGGGTAAT ACATATTAAA TANCANTAA CCAATTGCTA  
 CTGTGTTTC TTACACTAGA A

SEQ ID NO:698: (Length of Sequence = 317 Nucleotides)

GCAACCAGG AGAAGCAGAA GAGCAGGGTA AACCTGGGT ATAATTGTG TAGACCCCA TGCTCTCTT AGTCTGAGTT  
 CTGACATAAT TAACTGTCTA TGAGATGTAC TGGGCTTTC CTCATTGCTT TTTGATGCCA CCTACTAAT GTAAACAAAA  
 CATTCATTTT TTCATCCTAT TTTTCTTAC AGCTGCTTAG CACAGTCTT ATGAAAAAAT GAAGCCTTGA AAATGGTATA  
 TCCTCTGAC AAAGCTAAGC CTGACAAGTT GGCTGCATTA CCTAGGAATT AGAGAAGAGC AAGGGCAGAT GGTGGGG

SEQ ID NO:699: (Length of Sequence = 385 Nucleotides)

ACCAGGAGAT GGAGGTGCTC TAGACTGTGA TGCTGGGAAA GGATTGTGGG CTAGAAAAAG GGCTCCCTAG GGCCGGCATA  
 TGGGCCACTG GGTGGAAGAG GGGCTCTGAG ACCCTCACC TGGAGCAGGT CATCACCAC ACCGAAGAAT GAAGCGTGAA  
 TTGGTTCAG CTAAAAATGT TGAATTGTTG GCAAAAGCCC AAGTTAATGA AATAGCATGG AAAATGGATG TGATGAGATT  
 TTTGAATGT AATTAGATTA ACATTGTAC TAGTTATCAG TCTGATATAT CTTATAAATC AAACGTTGGG TTGATTATC  
 TTTTATCACT TCTAGGNT TACTCCTAAC AGTAACTCAC AAACCCAGCC CCAATCAGA GGCTT

SEQ ID NO:700: (Length of Sequence = 315 Nucleotides)

ATCAGTTGGA TTTCAGAGG ATTGGAAGGC AGCACCAGGC AGGCTCAGAC TCAGTCTGA CAGGAATGGC TTTCTTAGG  
 ATGAAAGAGT GTTTTTTGA GGACAGCATT GATGATGCCA AGTACTGTGG GCGGCTCTAT GGCTTAGGCA CAGGAGTGGC  
 CCANAAGCAG AATGAGGATG TGGACTCTNC CCANGAGAAG ATGAGCATCC TGGCGNTTAT CANCAACATG CAGCAGTGAT  
 GGCGCCAGGC TCTCAGGNT GGGCCTGATC CCNAGTGGT GCTTACTNIG CTGACTGTGT ACTTATCTTC CCCAA

SEQ ID NO:701: (Length of Sequence = 387 Nucleotides)

GGCAGGAGAA TCGCTTGGGC CCGGGAGGCA GAGGTTGAG TGAGCCAAGA TCGTGCCACT GCACTCCATC CTGGGCAACA  
 GAGGCTAGT CTGTTTCAAA AATAAAAAAT AAAAAAATA GGTAGGCTT TTCATCATG TGTTTCTAG CATCTAGTAC

ATACCTAGAA ATTTTGATAA ATACTTGTTA AACAAACAAA AATAAACAT CCACAGCAAG GANTCGACTA TAAGGCGTTG  
GTGG

SEQ ID NO:708: (Length of Sequence = 325 Nucleotides)

GGGCTCATAC ACAGTTTTAT TTCCTGTGA TTTTACAGAC ACTCCATCCT GCAAGCCCAT TCCCTTGAA AACCCAGAAA  
GAGTGGGCAC AGTGCTCCCT AGAGGAATAG AGGGGACAAG ATGGCTGCCA GGGAGAGGGC AGTTGAGGCA CTAGGGATT  
TACTCGGCC CTGATGGAAG ATCTGGTGCC CAGGGTAGGG GGAGAGGGCC TGGGCTGGGC TGGAGCCTCC TAGGTATTTC  
CCAGAAGCCC CTTCAGGAAC TGTCACCTGG ACTCCAGCAC CACCCCTCGT CATGTGTCA CTTCCTGTGG TGGCGGGAGC  
GCAGG

SEQ ID NO:709: (Length of Sequence = 264 Nucleotides)

GGGCCCCGTT GCATGAGGCA CTTTGTCAAA ATGAGCAGAT ACGTATGAGC ACTGAACTCT TGAGTGAATC AACCAGAACT  
AAGACCCAGA TCCACGCACT CAGGAACCTG CTCTGAATTT CAGTTTGACA ACAGAGAAGT AGAATATTTC TAATTAGCTA  
ATATATATAC ACATTTTTTA ATCATCCAAA ATTACAGGCA AATCACTTAA GGTCCCCAGC ACTTTACGNT GNAAGGTCAG  
AGAGANCCCC ACAAAAAGG TGTT

SEQ ID NO:710: (Length of Sequence = 366 Nucleotides)

ATTTTTATTA TATACATATC AGTACTACA ATACGTTGCT TATTTAAGAT GGCTGTTTAT AAGTATAAAG CAGTTTGAGC  
AACACTGATT GTGCATTATT GTACTTCAGA TGAAAAATCC TTACATGCGG AATCAATGTC TTTTAAAATT TCAGATAAAG  
AATTINCATT TGAGGNGACA TACAATTGTA AGTGCTCATT TTTTGTCAAT TTTAAGACAC CATTATGTGT AAGANGGATT  
AATTTNCCA TAAATTACA AACACCCCTC ATGCTTGAC ATTACATGG AAAGGCGAGC ATAACCATTT AATCATCCAA  
ATGCATATCA GAGCAAACTC CTAGGGCCTT TAGGTGTGAG GGTGGA

SEQ ID NO:711: (Length of Sequence = 216 Nucleotides)

GAAAAGCAGA AAAAAGTGGG GAAGATTTTC TATCTTGAAC TTGTGAGCTG GAGAATTACC ATTAGTAGCC CACTAATAGG  
TTATGGCCGA TGAGTCCCTT CATAACACAC TGAGAGCCAC TTTTGACACT CCCAGAAAAG GCAGGTAAAC AAAACCCCTT  
GATGGAAGCT TAGACCTCA TTGCCCAGTG TACCCAAGCC TCTTTGAACC TTGCTT

SEQ ID NO:712: (Length of Sequence = 276 Nucleotides)

ATTTTTTTCC CATAGCACGT ATCACTCTCT CATGTGTAC CTGCTACACT AGAATTATGA CCCCTAAGAG GGAAGAGACT  
ATGTCAGTAT CATTGATTCT NATTAACACC ATTATTAGA ACCATGCTTG GCTTAAAGTA GTAGCTGCTC AGTAAATATT  
TATCTATGTG TGAATTTTFA AGTNCCTCCT TTATATTGAN TTAATAATTAG TCTCTGTGT GCAGCAGTCT GGGTTTGTCT  
TATGTTGAAA TACTTATGTA GACTTCTACA TACATT

SEQ ID NO:713: (Length of Sequence = 354 Nucleotides)

AAACTTTACA ACCTGCACAT TTGTTATGCA TACTAAATGG TGIGTTAAAA TTAGGGTTTC TTTGCCTCTC TAACTACAC  
TAATCTGCCT AAAGGTGGTT GTTTCATATT TATAATGCTA ATTATCATAC CTACCTACTT TAAATTTTAG GTAGAAAATT  
ATCTGATTTA AATACAAACA TATTTTCTC ACATTGAGTA ATATGCATAA TGTAGTTCCA AATGTATTTT ATTACTATAG  
TCACAATATC CAACTAAAAA TTACGCTATC TAGAATTGTA CCANCCAAAA TCTCGTATTG GCAGATCTTG ACAGGCTGGA  
CTCCAAATA TCTGGCTTGG AATTTTAAAC CCAT

SEQ ID NO:714: (Length of Sequence = 349 Nucleotides)

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CAGTAATTCT CTTACATCCT TCCCAAAAT CAGTGTCTAG GGAAGTGTG ATCTGGATGA GTTATACATG ATATTGACT  
TTNCATAAGT AGTGAAGGT TTCCTAAGT AAAGATCTGA GTTCTGTGGT ATCTGACGTT TGTATACAGA TGGTGTCCAT  
TTGCTCAACC AGACAGGAGT TAACTGTAT TAGAATTGTT TTTNCTAAAG TNATGTTACC TGAGAAATTA AGGACTGCAC  
CTGGTTTAAAT GTTGTCTCAC TTATCCACC CTACAGAGAC CAGCAAGGTT CTGCCAGGCC TCGAGCATCC AAGCATGATT  
TTCCTGTGAC AAAATCTAAA AATCCAACC

SEQ ID NO:715: (Length of Sequence = 302 Nucleotides)

ATATTGAAA AGATCTTCAC CAAAGATATA TGGATAGTAA GTAAATATAT GAAAGGTTTT CACTGTTAAT GATTAAAGGA  
AATGCAATCT TGTACATGAA TGTTTATAAC AGCATCATT ATAAGAGCCA AAAGGTAGAA ACAATCCAAA TGTTTCATCA  
CTGATGAATG ANTACACAAA ACATAGTATT ATCTATATAA TGGAATATTA CTGGCCATA AAAAGAAATG AACTGGGCCA  
GGCGCAATGA CTTACGCTG TAATCCAGC ACTTTGGGAG GCTNAGGTGG GGGACTGCT TT

SEQ ID NO:716: (Length of Sequence = 314 Nucleotides)

GTATTTTATAG TAGAGACGG GTTTCACCGT GTTAGCCAGG ATGGTCTTGA TCTCCCTACC TGTGATCCG CCCACCTCG  
CCTCCCAAAG TGCTGGGATT ACAGGCGTGA GCACCTGCGC CCCACCCCAT TTGGGTGTA TCTCAGCTCA CTGCAACCTA  
CCCTCCCAA GTTCAAGTGA TTCTCTACC TCAGCCTNTT GAGTAGCTGG GATTACAGGG GTCTGCCACC ACGCTGGCT  
GATTTTCTTA TTTTNAAGTG AACTGCAATT TCACCAGNT GCCAGGCTG GTCTGATCT CCTGACAAG AGGG

SEQ ID NO:717: (Length of Sequence = 279 Nucleotides)

ATAAAAATGC TACAGATTTT TGTAATGTTA TTTTATCA TGCAATTTCA CTGAATTTGT TTTTCAGTTA TAACAGTTTT  
CTTATGGAGT CTTTGGTTTT TNCCAAATAC AAGATCATAT CATCTCAAT CAAGGATAAT TTGACTTCT CCTTTCCAAT  
TTAGATGTC ATTATTTTTC CTCCTGTCTG ATTGCTCTAG CTAGGATTTT CAGTACTATG TTGAATAACA ATGGTGAAAG  
TGGGTATCCT TGTATATTC CAGGGTCTG GAGGAAAGG

SEQ ID NO:718: (Length of Sequence = 161 Nucleotides)

AAGAAAAA CATAAATAAT ATTAGAAATG GAAAAGTTAT AAATCAACTA CAGCAAGNT TTAAACTAT TATGAAACAA  
ACCAAGTAGA AAGTAGATCT GCCAACAATA AAAGGAAAGA NACTGTTTCT TTCATAATA ANTGACAATG GGGGAAAAG  
A

SEQ ID NO:719: (Length of Sequence = 220 Nucleotides)

GACAGATTT TTTTTTTTT TTTTTTTGA GACAGATCT CGCTCTGCA CCCAGGCTAG AGTGCAATGG CGCAATCTCG  
GCTCACTTCA ACCTCTGCTG TCACAAATAA ACATCAGTAA GAGCCAGCAG TTGCTCTAGG ATCTCAGTCA GCAAGCTTGG  
GGCTGTCTAG GAAACCAGCA GTCACCTGTT TCTCCCTCTC CCAGCCAGG GCTGACCCCT

SEQ ID NO:720: (Length of Sequence = 347 Nucleotides)

AGAAATGAAA GCTACATTAA CGAAAAAGGA ACTTAGGAAT GAGGTCAATTA AATATACTA ACTACATTTT AAATACGGAT  
ATCATATATT TCCTGATTAG TATCAGGTAA ATATCTAGAC TCCTATCTG AATTCCGGTC TCAGATAAAA AGGTGAGAGA  
CAATTACAAG GAAGATGCTT CATATTATCA GGTCAGTATA TACCTAATTA TGTGCACTGG AGAGTAAATT ATTCTTCATT  
ATCATTTGTA AACATTGTTT TTTACATTT TTGTAGTGT CCATAATGTA AGCTGTGGG TTTGATTATT GTTTCCACA  
CTGATCCAG CTGGTTTAAA CCTATT

SEQ ID NO:721: (Length of Sequence = 313 Nucleotides)

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AAAAGATTG AACAGATAAT TCATCCAAA AAAATATGGG TGGGAAAAA AGCACATGAA AAGATGCTCA ATATCATTAG  
ACATTAGAA AATATAAAT AAAACCACAA TGCAATATCA CCTCGTATCT ATTAGAATGT CTAATATTAG CAAGACTGGC  
CATATAGAGT GTTGGTGAGG ATGTGAACAA CTGAACTCA TACACAGTGC AGGTGGAAAT GTAAATGATA CAATTTTTTT  
GGAAAAGAGT TGGCTGTTTC TTCAAAGTT AAACATTACA TCTGCCATAT GNTCCAGACA TTCCACTCCT AAG

SEQ ID NO:722: (Length of Sequence = 266 Nucleotides)

ATGTGCCAC TGCACTGCAG CCTGGGCGAC AGAGGAAGAC GCCATCTCAA AAACAGAAAA AAAAAAAAAA AAAAAAAAAA  
AGTGCAGCTC TCTAATTGGG CTCTTTTACT TACTATTAT ATAATAAAG CCACGTTCTT AGGCTGTATA ATGGGGTTAA  
TCATAGTAAG TACCTGTAA AGTTACTGTG ATAACCAAT AAGTGANCAT AAGTAAAGCA TTTTACATGT GTGCAGCTTA  
ATAAGTTGA GTTGTGACTA TTATTT

SEQ ID NO:723: (Length of Sequence = 370 Nucleotides)

ATTATTCAATG AAATAATCCA TGTAACATCA CTTAGCACTG AGAGTTAACA AAGGCAAATG TTACCTGAAT AGGAGGAAC  
AGAGGAAGAA CAACGAGGTC TCTTTTATCT ATGCTAAGCT TTGTCTGAAT AGGAGAGAAA TGTGTGGCCT GTTGGTGAAT  
TTATTGCTTT GTGGTAGTAA TGGATTTYCC TAAAGCTGTT TCCCTCTGAT CATTATAAT CCCTGTACAG CAAAGGACTA  
TTGTCTTTG GTATGAGTAA ATAACCCTGT TGGAGGCACC GCTTATCTTC AGACCACAGC GCATACTTCT TACTGGAAAA  
TATAATGCAG GTGCCAACAC CCAAAGGCA TGACCAGGG TTCCCTTCC

SEQ ID NO:724: (Length of Sequence = 478 Nucleotides)

GGACACAAT GAAGTGTGA AGAAATGAAA GGGCGAAGT GTGTTTGTAG AAGGCTCTGG AAGAAAGCC CAACAACCCA  
GAATTCTCT CTGGACTGGC AATTGCGATG TACCATCTGG ATAATCACCC AGAGAAACAG TTCTCTACTG ATGTTTTGAA  
GCAGGCCATT GAGCTGAGTC CTGATAACCA ATAGCTCAG GTTCTCTTGG GCCTGAACT GCAGAAGATG AATAAGAAG  
CTGAAGGAGA GCAGTTTGT GAAGAAGCT TGGAAAAGTC TCCCTGCCAA ACAGATGTCC TCCGCGTGC AGCCAAATTT  
TACAGAAGAA AAGGTGACCT AGACAAAGCT ATTGAAGTGT TTCAACGGG TGTGGGAAT CCACACCAA CCAATGGCTA  
CCTCTATCAC CAGATTGGG TGCTGCTACA AGGCAAAGT AAGGCCAAT GCAGANTACA GGGGGATCTG AAGCTAGT

SEQ ID NO:725: (Length of Sequence = 356 Nucleotides)

GACAGAGGAG AATAAATGGA ATAACTTAGT TTTGTGAAAG ACTCACAGTA TCACTTGGTT TCTGGACAG GTTGAGACC  
TGGCTGTGGC TTGCTGTGGC CTTGAGAGCC ATCCACAGC AGCAATGCTG TTGGACCTT TGGCTGGAC CTTGAGACC  
CCCTGCAACA GCACTGTGTC CTTAACCTGC TGGCATGATG CCCCTTTNTT GACAGGGCTG CATACAAGGC CAGCGACAAG  
TGGCAGGCAG TGACGCCAGC CTGATTGTC TGAGGCACA CGCCATGCTT CCTGCACTGC CAGTGTCTTT CTNGGTCCAC  
TTTGACAGCA GGATAGATGT GGTCTAGAT CCAAGA

SEQ ID NO:726: (Length of Sequence = 387 Nucleotides)

GTGGTAGAGT AAATCCTATT ATATCGAGAT ATTGGTCAGG CAAGAATTTT NCTTTTAAAA TAATTTATTG TAAATGAACC  
ATAAATTTT NACCTTTGTG CCATCTTCTA GGCTATAAAA TAGTCTTATA AAGAATCAGA TTGTAAGAG TATATGAAAT  
GTGGATATGG ATGTGGAAGA TCCATAACGA GGATGATGAA AGCACATTAA GAAGCTTCTT GATGGGTACA AAAATAGAA  
TGAAGAAGAT CTAGTATTG AGAGCACAAC AGGGTACTA TAGTCAACAA TAATTTATTG TGCATTTTCA CATAACTAAA  
AAGTATAATT GGGATTGTAA CAGAAAGGAT AACTGCTTTG AGGTGATGGG ATACCCCAAT TTACCCC

SEQ ID NO:727: (Length of Sequence = 348 Nucleotides)



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CCTTTAAGC AGCGGATCCC CTGGTCCCCA CCCCCAATT TATATTCATT AGGCGTGAGG TGGGGCCTGG GAATCTGGAT  
 TTATAAATTG CTCCCCATG ATTCCAATGC CAGTGGGTTT TAGACCACAT TTTGAGAAAC AGTGCTGTAA ACTGTTTTC  
 ATTTGCAGTG AAGGAAAATG TAGGGTTTGT GTCTGGAAC TATGCAGAGA AATTGAATAG TATTNAGTC TAATCTTGCT  
 TTTAALTAAC ACGGAAATTT TGAAAGTGG CTTTAGGGAG TTCCAGAACC TGTCCATGAA CAGCAACAAG AAAGATCCCN  
 GTGTGAAAT GAACACTGGT TGGTAAAA

SEQ ID NO:728: (Length of Sequence = 305 Nucleotides)

TGTTTATTA TAATCTTATA CAGTCTACAT AAATTGAAC TTGTATTAT TGGGTTTCAG TTATAACATA GCATAATAAA  
 AATCAAGCA CTGGTCTCT GAAATAAGC AGGCAATCAC CATTCAATA ACACACTTGA TTTATTTTGT ATAAAAGGT  
 TAAGTTTACA ACTAACTTT TATAAANGT TTAGCATGAA TAAGTACATC ATTACACTTT TGAATGCAGA AATAGACATC  
 TCTGCCACTA TACAAGAAA CTCTAATTAA AGAGTTCACA AGGTTTCACT CAAATAGATA TATTT

SEQ ID NO:729: (Length of Sequence = 383 Nucleotides)

CAGACATTT ATTTTCTAT TTCCATGAA GAAGGAGAGG GACAATTTTA GATTCACCAG TGTGCAGGAC AAATCTTAC  
 TTAACATA GAGGAGCAAA CTTTCTCAA ACACATTACC AATACAATTG TAATACTAAG AATCAATACC ATAGTTCTCG  
 ATGTAGCATG ACTACAAATT GTCACAGTAG ATTTTGGATG ACTTTACCAT AGCCACACTT AATGAATTAT TATTNATATT  
 NCTATTGTA CTTTAATAAA ACTATATTTT AAACTTTAAA ATTGTCAATT AAATTACTAA AGAAAATGAG TAGTCCCAT  
 AATGAATCCA TAATGTTANG AATTGTGCTT AGCAAATGAG GACTATATTC ACCTANGCTT TTG

SEQ ID NO:730: (Length of Sequence = 311 Nucleotides)

CTCTTTTATT CCTTAACTG CTTAACAAA GAAAGAGTCT CCAAAGTTTA AAAACCTTT GAAAAATATA CAGCTTGATA  
 TTATTACAT AAAATATGAN TCCAGGTTCC AATATCAAC AAACATTGCT ATGTCAGAAA CACAGTGGAA GGCAGGAACG  
 TAACTACTG CCTTTAGAT GCAAAGACTA ATAGACAGT TCTCCNATCT CGACTATCTT NGTTACCTGT TATCCTCANA  
 ACATAATTA TTANGGCACC TENGAGGTG GATGACTACC GAAATGGNC TTCATACCTT CTGTATGATT A

SEQ ID NO:731: (Length of Sequence = 349 Nucleotides)

AGGGAATGC ACAGAATTCT ACTAAAATA CAGCAAATA AGAGAGCATG AATTACATAT CAAATTATTT AAAGCAAATA  
 ATTTACAAA TTTCTGGAAC AGACAGAAAG CAGATGAGTC TACCAAGAAG GATAATAAC AATGACACCA GAGAAAACC  
 ACAACTGAA AACTTAAGAA AACTGCCATA GAGGTGTGAG CCAGAGCTCC CAGGAGCCCT ACAGTGTCC AAGCTCAGAA  
 CTGGCAGTA TCAAAGTCAA GAATGCTATG GGGTAGCTAG GCCTCTTGAC TTTCTCTCT CTCTCCATTC ATAGACAAGA  
 AAGCATATCT ACCTTTAGGT GGCTAGAA

SEQ ID NO:732: (Length of Sequence = 370 Nucleotides)

AAATTGTC CTCTAGCCTA GAAGCAATCA AACTCCAAT GGTGCTGCTG ACTGANTAC GCATGGATAC GCCATTCTTC  
 TGAGGCCCT TAGACCAACC CCAGGAGGAG CCGTACTTC GTTCCCCAT TTATGCCCC TTTTCAAGCA GGAAGTAGCC  
 AGAAAGATC ATTGCCAAA ACCACCTAAC AGCAGTTGGG GTGAGTCTC CACAGGGGG AAATGTTATA GGAGTTATTA  
 AGAAATATC TTAGGCAGAT AGAGAGCAA AGGGGTCTT GGGAAATTTT TGTTCCTTTT AAAGTAGCTG CAGAAATGTT  
 TCTGCTAG CAGGAAAAGC CCCAGCTCTT TAAAGCTGGG GCCAGCAATC

SEQ ID NO:733: (Length of Sequence = 357 Nucleotides)

TTTTTGGTG TGTAGAGACA AGGTCTGCT ATGTTACTAP GGCTAGAGAT CCTTTTAAA TGTCTTCTG CTAGGTGTT  
 GGGCTTAC CTCTCTTTG TTCTCTCTC CTCTCCAGC TTCTCTGGAT TCCATCTGTT TCTTACTCTG AGAAGTTTGC

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TACCTAGCTA GCCCTCAACC TCTTTGTTTT ATGAATGGAA AGGCTGGGAC CCAGACAGGG CAAGTGA CTC ACCCAGTGTG  
ACAGAGCTGT TAAATGGCAG AGCATGATTG AATCGGGCCA TGACTACTTT CCTACATGAC ATATTGAAAC CAGTTTGAGG  
CCTCGGTTTC CTCTCTNGCA AAACAGAGAT ACTAATG

SEQ ID NO:734: (Length of Sequence = 374 Nucleotides)

TGGTGAAAGA AGAGAAGGAA ACCTTGGTCT GCATGGCACT TGGTACTTTT GTATTGCCTC CATGCCCTCC ACTGCAGCTC  
CTGCCCTGCT CTGTGTGCAT CCCTCATGAG ACTCAAGACA GATAACCTCT CCTTGCCCTT TCATGTCCCA GCCCTGCTC  
TTGGACTCAA CCATCCATTG CATCCCATG GAGGATTCTG CCAGTCTCA GGACTCAGGA GCAACCCAAG GATGTCCAG  
GGTCACAGGA AGACTTGTG AGGGGACCCA CAGGGGTGCC CACAAATTAT CAGTCCATGG AGAAAAGTAG AGAGGGAGG  
TCAAGGACCT CAGCACGTAA GGGACATTTT GAATTCTACA AGTCACGGTG GGAT

SEQ ID NO:735: (Length of Sequence = 348 Nucleotides)

CCCAGCGCTT GGAGAGCCAG CCCTGCAGGG TGGGCTGGC GAGCCAACT GCGTCTCTGG TGCAGGGCTT CGGGTCTCCC  
TAACAGACCT TATACGCTGA CCGGCGGCCG CCATGGCAGT GTCTCTTTGC TCAGACATCC AGGGACGACC ACATTGCTCC  
AACAGCGTTC GCTCCACCAA TCCTGGGAGA AGCGAATCGT TTTCTCCGCG TGCCCTGTCA GCGCTCATG GTGCCAGAG  
AGGAATTTTA GTGGCAGCAT TCCGCTGTC ACGCCACCGA AATTGCCAGG NCACTCCAAG TCAGAAGGAC CACCAGGAAA  
AGTCAGGAAG AGAACCACCC ATCAAGGT

SEQ ID NO:736: (Length of Sequence = Nucleotides)

ACACTCTGA CCTCAGGCAA TCCTCCACCC TCAGCTCCC AAGGTGCTGG GATTACAGGC ATGAGCCACT GCGCCAGCC  
TACACACT CTTAATAGAA GAAATGAATA ATCAAAAAT ATTATTGTG GAAAAATGT TTGAATCTTA TTTTAAAAT  
AATTACGNT TTCAATAGGC ATGTTGAACC TTTTTCGGC TACTGTTTC AGCAATTGCA GTTGAATGAG TACAAAATGC  
ACCACAGAAT AGAGACTGCT ATCTACCCAA ATATTCTGG TTGTTGAATC CATGGTAGGG AATTTCATG TATTGTTACA  
ACCGCTATA AATACATCCC AAAATATGTG TAGAGCTAAA ATAGATG

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SEQ ID NO:737: (Length of Sequence = 243 Nucleotides)

TTAATCATTC AACTTCATT TTATACAACG AGTGATACA CCACTGGGGG AGTNTCTGAC TGATGCGTGG GAGGGCGGG  
GGGATGTCT NCAGCTATGA GTAGGGAGGA GCGGGGAAG CCCTGGGTGC TTCTCTCTCT CGACTGACCG CTGTGTGTT  
GTCCCAGAG GAAGAGCGG NGGCAGTCAG CCGGGGGG GATGGCAGAN TGGAGAGAG GACCTGCAGA AGTGGTGGCC  
AAG

SEQ ID NO:738: (Length of Sequence = 358 Nucleotides)

CGAGTCAGAG CTGGACAGCG GCGATGCCAT CTTTACATGG CCAGACCGAG AGAAGGGCAA ACTCTGCAT GGTGAGAATG  
GCTCTGTACC CAACGGGCAG ACCCTCTNA AGGCCAGGAG CCGCGGGAG GAGATCTGT AGCCACCTGG TCTGTCTCT  
CAGGGCAGGG CCGAGCACAC TNCOCGCCA GTCTCTTAC CTCCGAGTN TGCGGCAGC TNCGTGCCA GCATCTGCTG  
GTCAATTCGC CCTGACAGTC CCAACCAGAA CCCCINGGA CTGAATCCA GAGANGTCT CCAGGNAACC CCTCAACGAA  
GCTGTGAAAT GAAGAGGTTT CCTCTTAAA ACTGGTTT

SEQ ID NO:739: (Length of Sequence = 400 Nucleotides)

CATTTCTGGC CAGGCACGGT GGCTCATGCC TGTAATCCCA GCACTTTGGG AGGCCGAGGC AGGCCGATCA CGAGGTCAGG  
AGATGGTCTA GACCATCCTG GCTAACACAG TGAAACCTG TCTCTACTAA AATACAAA AATTAGCTGG GCGTGGTGGC

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GCGTTAGTAT TTCCTTAAAT AACAGGTTAC AATAGAAAGA TACTGCCTGG AAGTTATCCT TTTCATTTTG GTTCATTTTC  
 AGTTTTTGTT TATGATTIAC ATAGCTGTTT AATTCATTTG CTTATAGTAC AATCCTGCCA TAAAGTATTA AAGCACAAGA  
 TACCTGTIAT TCCCTTCAAC ATCTGCAITTT TTTCAAGNTT TTATACTCTA TATCCACAGT ATGTCAGCAG TTCTTGACTG

SEQ ID NO:740: (Length of Sequence = 374 Nucleotides)

ATCGTCAGAT TCACCAAGGT TGAAATGAAA TAAAAAATGG TAAGGCGAGC CAGACAGAAA GGTCAGGTTA CCCACAAAGG  
 GAAGCCCATC AGACTAACAG CAGCTCTCTC GGCAGAAACC CTACAAGCCA GAAGAGAGTG GGAGCCAATA TTCAACATTC  
 TTAAAGAAAA GANTTTTCAA CCCAGANTTT CATATTCAGC CAACTAAGC TTCTATAAGTG AAGGAGANAT AAAATCCTTT  
 ACAGNCAAGC AAATGCTGAG GGATTCTGTC ACTNCCAGAC CTGCCTTACA AGAGGTCTTG AAAGGANGCA CTAAACATGG  
 AAAGGGAATA ACTGGTACCA GNCAGTGCAA AAACATACCA AAATTGTAAA GGA

SEQ ID NO:741: (Length of Sequence = 290 Nucleotides)

AATTATTTCA TAATAATGTA ATAAACATTC ATGAACATAC CCTATCAAGC AAGAGCTAGA ACCTTGGCAA TCATTTCCCTT  
 GACTCCTCCA GTTTGTGGCT ATCATGATAT TCAGCCCCAA GTTCATCAIT TCTGTTTTIN CTTCTATACA GGTTCTCTAT  
 ATGTATTTCT AAAAATCATT GGTATTTTCA TCTTTGTAAA AAGTCATTGT NCTATTTTCC CCACTAGTTC TACATTGCAT  
 TCAATATGTT GTGGGTGTG GTAATTCATT NATTTTGACT GCTGTATAAT

SEQ ID NO:742: (Length of Sequence = 274 Nucleotides)

TTAAGAGGAA AAGTATCTTT AGGAATTINT TTCTATAGAG TTCTTCATTA ACATTTATAC GAGTTTTTTG CTGAGTCAGA  
 TGGACAGTTG GGTTCGTATG CTTTNCCTT CCGCCTGCC AGGCTGGCCC AGGCAGTGCT CCCACCANTC TATGAGOGIN  
 TCCGGGGCCG NGGATCTGGG CAGCATCCAT GGTGCCGGGG CCATCCCCAG CGGNACCACA AGGTNGCAGC GTTGNTCCAC  
 GAAANACCGN CTTTCCGCTC TGCTTCCCCA AAGG

SEQ ID NO:743: (Length of Sequence = 398 Nucleotides)

TTGCTTTGCA GTATCTGGA ACTCCTGFIG CTCTTCAGG AGCTCCTGGG TGTGCTGTAT ACTGGAGCCC GTGGAGGTGT  
 GTGTGGAAAG GTAGAACTCG CCATGTGTCAT GGATCCATTC CAAAGCCTGC TTGGCACTCC TCTCAAAGAC CAGTACTGTC  
 TGACACTGGT CCAGCGTCT CTCTCTCATG GTCCAGTAAT GCAATACCCT GTTCTCCCGT TGGAAGAGTT CATTCAGAT  
 ATTTTTCATC TGCTGTTCAG GAGCTTTGAT GTGGTCAACC ATTCTGGCA TGTTCAAGCT TGTCTCTGTG CAGGTATTTT  
 AGGAAGACGT CTGCATTNCT CCGAGCAAGN GGTGCAAGCC TTCAGGAATG CCTCCTTINC TNCAGGGTGC GGTTTTCA

SEQ ID NO:744: (Length of Sequence = 359 Nucleotides)

TGCGACAGAG TCTTGCACTG TCACCTGGGC TGGAGTGAG TGGTGCAATC TCAGTCACT GCAACCTCTG CCTTCCGGGT  
 TCAAGCCATT CTCCTGCCCTC AGCCTCCAG GTAGCTGGGA TTACAGGCAC CTGCCACCAT GCCCAGCTAA CTTTTTGTAT  
 TGTTTTTTTT AGTAGAGATG GGGTTTCACT ATGTGTGCCA GGCTGGTCTC AAACCTCTGA CCTCGTGATC TGTGCGCTIN  
 GGCCCCCAA AGTTCTGGGA GTACAGGCGT GAACCACCGN GNCGGCTGG GGCTGCTTAT TTAAATCCCC TAGAAAGAGG  
 GATTCTNCAG CTACACCACA CCTTAACIT NGAGGACC

SEQ ID NO:745: (Length of Sequence = 361 Nucleotides)

CCCTTAATTA AAAGTTTTAT TTTTAAAAA CGTAACAGAC CACTCTAAGA AACTTTGGCA TTCAAAGCAG TAGTTACTGT  
 TATTTGCTAA CTCTGAAAAA AAAATTTTNC CCTCACAAC CAACGGCAA ACTCCTGCCA CTTCTAGCT TGGTGGCTGC

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CAGCGTGCAC TGCAGGGAAA CGGTGGGTGG AGGGATAGGA AGGCCCTCAC GCTCCCAACC CACGGAGAAA NTGCAGATGG  
 TGACAAGCTG CATCTGGACT CCAGGNTGTA TCTGACAAAG AGGGAGATGG TNTCCTCQNT CCCCTNCACC AGCTCCACTT  
 TTNCTGCTGA AGAAACAGAG ATGTGGAGGC AGGCGTGACC T

SEQ ID NO:746: (Length of Sequence = 285 Nucleotides)

GTGTTTTTAT TTATACCTAC AAAAAGAAAA CAAGATGATG GTATCAAAG GACAATTTAC AAATAAGAA TAGTAACATA  
 GCTTTCAGCA TCCTGTGCTT GAACATCACA CATCTACAAG TCTTTCAAGN CTTAATGCAA CAGGAATNTG TCTGGAGACC  
 AGCAAGANCA TCAATAGAGA GCACTGNTCC CAAGCAAAG CCACTAACCT TTTAGATGAG AAGTCCACAC AACGGATTNT  
 TAGGGGAGGA TTTGGGNGAA GCAGCCCAT TGTCTAATAC ATTGG

SEQ ID NO:747: (Length of Sequence = 302 Nucleotides)

CAATGCAGTT TTAGAGTGT CATTCCTTCA ACTTATTIGA CAAATATTTA CTGAATGTCT GCCATAAGGC AGTAAAGGCA  
 CAGAAAGACT CAAAGCCTTT TTNCCCTTAT GGGGTGTAAT TNCTAGTGGT GGAGACAGAC AATGAGCAAG TAAACAATCA  
 ATCGGCTAAT GATAACTACT GTGAAGAAAA TAAAGCAGGN CAAGGGAATA GAGTATGCCA TCATTAAAGAC TGGTTAGGGA  
 AAGCTTCTTT GAAGACATGG CAGCTATTGA AAACCTGACT GATACAAAGA AGCAAGTCAT GT

SEQ ID NO:748: (Length of Sequence = 346 Nucleotides)

GAGACCAGCC TGGGCAACAC ACTGAAACCC TCCTCTCTAA AAAGAAGAAA AAAATAAGAG TTTTGAGTTT TTCCAAAGAA  
 GAATGCTCAG TACGTTTGIN ATCTATCAGA AAGAAGAATC TGGAGGTCTT GACGTGTAAA CAGAGTTGTG GGTACCATCT  
 CACCAGAAAT GCTGCCCTGA AGCCAAAGGA CTGAGCTGCT CAGATCTGGA AGTAATCTGA GCCCCATTT CCAAGAAGAG  
 AATGTCAGAA TTTTATAGGA AGAAGGGACC TGATCCCTGT CAATGGAAGC ATTTTAAAT TTTTAACTGA AGTTCCAGGA  
 GCATACAAA AGCCAGGNAA TTTACC

SEQ ID NO:749: (Length of Sequence = 325 Nucleotides)

CTAACTTTA TTTTCAAAG CTTAAGGCC AAATACAAAC TGAGGTCTTC CTCTCTAACA AATTAACTACT AAAATGAAAC  
 AGCTTTTINT GTGTCCTTAA GACAAAATAA GGAAGGAAAA CGTAGCTGCA GTGTGCCAG ATGGATATTG GTTCTTTAA  
 ATATATCTGA AAGTAGTAGT CAGAATGANT TATGGTTGGA AAAGTGGAGN ATCTTCTGGT TGCGAGTGCA AAGTGACTTT  
 NTTTATCTT GTCTCAGTCT CTTGATAGC CACTTCACTC TGCTACTACT CACTTTCTC CTAAAAATAC TTCATCTATT  
 TTCAG

SEQ ID NO:750: (Length of Sequence = 341 Nucleotides)

TGTATTTTNA GTAGAGAAGG GGTTCGCCA AGTTGNCAG GCTGGTCTCG AACTCCTGAT CTCAGGAGAT CGGCTGCCT  
 CGGCTCCCA AAATGCTGGG ATTATAGGCG TGACACTGTC TCTGGTTTAA GAGAACCATG GGCTGAGATA TTNAGGAATT  
 CTCCAGGCCA CGAATCTTGG GGCAATGAGC CTCTCCGTA CCCACAGCA TCINGGGAG CTGGTGTGCT GATGGGGTCA  
 GCTCTCCAG CTGCTGGAA AATTCTCAGA CACTCCCTAA GAGGACATCT CCACCCCTNC CACTCTNACG TCAGTCTTT  
 CTAACATTGC TCATTGTGTT G

SEQ ID NO:751: (Length of Sequence = 377 Nucleotides)

TTTTTTGAGA CGGAGCTTNG CTCGTACAC CAGGCTGGAG TGCAATAGC CCATCTCTGC TCACTGCAAG CTTACACCAT  
 TCTCCTGCT CAGCTTCCA AGTAGCTGGG ACCACAGATG CCGGCCACCA TGCCCGTTA ATTTTTTGTG TGTGTGTTTT  
 TAGTAGAGAT GGGGTTTAC CATGTTAGC AGGATGGTCT GGCCCTCCAG CTCTCTGTA GTCCCTTCAT AAACATTTGT

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TTATCTGTGA AAATAATTG TTCCATTTCT AATTAGTACA TAATGAGAGA GGCAGTGGA TGGTTTGTC CTAAGNCCTT  
TCTTGCCAAG ACTTTCAAAG CCAAAAACCTT CACAGTTTTT CCTAGATGAC TAGACAG

SEQ ID NO:752: (Length of Sequence = 359 Nucleotides)

AAGTCAGGCG TTCTGGGGC AGCTGTCCTG TGAAGITGGT GGGACGTGCT ACCCTGGGCC AGCTCCAGGT GAGCNTGGCT  
TGGTGGTCC CCGTGGGCTC CTNAGTGGCG AGGGTGAGGC CTGGCACTGG GCTCTAACT GGCCCCGTGG CCTGTCAGTC  
TTTNGTCTG GTGTCCCGCT TGCCCTTTNT CCGGCTGTTC CAAGGCTGTC TAAGCCTCAT CGNCCCNAG TACTTTNACA  
ANCTGGGCGC CTGNTGGAA GCAGGTGAGT GGCCATCANT CGTGGTCATC TTGNTCAT NATCCAGCT TTGGCCCCTG  
GTGGGCTCG GCAAGCAGCT TCTCCTTGGG GAGGGTCTT

SEQ ID NO:753: (Length of Sequence = Nucleotides)

AGCTTCAACT TGGAAAGAAG GATGATGCAG TTTTGGGCCC TCCGGCCATC AATNACCGAC AGCNTTTTGA CCTTGCGGGA  
AGCCAGGTAT ATGINTTCAG TGGAGCCAG CTCCTTCTGG TGCCCTGGT AGGCTGAAAA CATCTTTTCA AAATCCTCTA  
GGTCCAGNT CCGAAATACC TGCAATCAT CAATCTCAIT CCATACGGTG CCAGGGACAC GCTCCTCAIT CAGCTTCACC  
CAGTTGAAGG ACTTCAGTGG GTGAGAAGGC TGGGGGACAC GCTTTTCTCT GAGTGGGACG

SEQ ID NO:754: (Length of Sequence = 342 Nucleotides)

CTGTGAAGT GCAGGTTTGA TCCAGCCAGT ATAGAACTAG CTCTGTAGGG GTGAGGAGGA CTGINTGTG TATCATCCTT  
GATTGINTTC CTTCAAGGAG CATTGCACTG TAAGTACATC AGAATGACAA ATTGATGAAC TGCAACAGTA TCTTTTGTG  
AATGTTCCAC ATAATGCAAA TGCCATACGT TGTGTGAATA TTATGTTGGA ATACAGTCTG GATATCTTGG AAAACCATAA  
CTGCCCTTA ATTTAACATA GNGTAATACA TAGINTGTGA TTTTITTTAA AGTGAGCTNT AATGGGNAAG TATTTTINAT  
ATGCTTTAGC TATAGCTAAA GG

SEQ ID NO:755: (Length of Sequence = 321 Nucleotides)

CATTGCCATC TTCTAGTCC TTCTCCCTTT CTTTCCAAGT AGTTTACGGC CCTAGGGCGA AGGTGGCTTT TATTTCTCTT  
CTTGGGGAAG GAGGGGGAGG GAGCTTTCCC AAGCACATCA ACCTAAGGAA GGGGTGGTTG CCCCCCAGC AGGAGGGGC  
TGGAACTGCT GATCATTCGG AAGGAAGGGT TCGTCTTGT CCCTTCTCTG GCCCTTGGCT GCAAGGGTGT GCTINGCAGG  
GGTCACTCCC CTGCGGGGTG GCAGCTCCTG CATCAGTNGA GGGCACAAGG AGGTATCTGC TGGTGTTCAC GAAGAGGAGG  
G

SEQ ID NO:756: (Length of Sequence = 368 Nucleotides)

TGGCATGGTT GCATGTCCT GTAATCTCAG CTACTTGGAG GCTGAGGCAG GAGAATTGCT TGAACCTGGG AGGTGGAGTT  
TGCAGTGAGC CAAGATCGCA CCACTGCACT CTAGCCTGGG TGACCGAGCA AGATTCAATTT TCAAAATAAA TAAATAAATA  
AATGAGAAAA AAATATAGAT ATAGTAAAGG GAACAATTAC ATTCTACAAT ATTTTAGCAG AAGTAAATAT GGTTAATTC  
AATGGAAACA GCTCTGCTCT ATNGAAAAT CACAAATATT AAAAATAAAC ACACTCTACA TTAACCTCT GAGCACTAGA  
NGCTTACCTA CTATTCATA GGGCTCACAT ACTGTAGGG GGGTAAAT

SEQ ID NO:757: (Length of Sequence = 339 Nucleotides)

CTTCCACTGC CAGGTTATCG TCCGGGAAG CCCCCACCC CCTCGNTTC CTCTCCGCT TTCCCTAACC CGTCTCGGG  
GGGCATCTAC GNTGCTCT CTGCTCTCT CTNCTGAACT TCCCTTGTG CTGCGCGGT GCGCTCTGG TACTGCTGGT  
ACTCGGACAC CAGGTCGTC ATGTGCTCT CCGCTCGGT GAATCTCATC TGGTCCATGC CTTNNCCGT NTACCATGC  
AGGAAGGCCT TCGNCGGAA CATGGCCGTG AACTGCTCG AGATGCGCTT NAACAGNTCC TGGGATGGCC GTGCTGTTC  
CGATGAAGGT GCGGACAT

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SEQ ID NO:758: (Length of Sequence = 356 Nucleotides)

TTTTTTTGTA TTTCTTTTGT ATATGGGTGA AATGTTTCGG TTATATTTCC TAATTGGCTA TTGCTCGTAT AAATAGATGT  
 GGTITTAGGC ACATAITTTA TATCTGGCTC CTATACTAAA AATCTTTTAT CATTTCACAC AGTTTTTCAGT TATGCTCTTG  
 GGTITGAAGG TAGACAATAA TGTCATCTAC ACATAATGAT ACINCTGTTT TCNCTTTTAA AATGCTTATA GCTCTTTTAT  
 TTTTATTGCT TTGCTTGTGC TATAAATNCT AGAATGAAGT TAAATAATCA TAGCAGATAT CCTTTTTCCT GATTTAATTA  
 TAATGCTCCT GAAATTTTAT TAAGTATGAT GACTGT

SEQ ID NO:759: (Length of Sequence = 333 Nucleotides)

GCCATGTGGG GCGGGGAGGG CGGTGGGGTC GGGCGGGGGG GACGGTCAAA GACTTCATAA ATAAGAGGCG GGTCCCAGAC  
 CCNCAATTT GTCAACATGT CTAAATAGG TGCAATTTT AAATCTTATG TACAACAAGA ATCACTTTGC ATAGCAATGG  
 TGAGGACACA GGACGGGTGC AGTGATGTGA CTGGGTCTTC TTGTCCCAAG GCGGGGGGGC GAGTTCCGAG CTCAGCTCGG  
 AGCCTCTAGG AAGAAAGCAT CCTTCGTCCG GCGGCAATN GTGGCATCGG AGTTGACTTT TCCACACGA CGGCATCAAN  
 CACAAAGGCA AAG

SEQ ID NO:760: (Length of Sequence = 311 Nucleotides)

CGTCTCTCT GCGCAACCCG CCCCCACCA TTGCGGAGGA GGCTGAAGAT GGAGATGGGT CCGGCAGCAT CTNCGGTTC  
 ACCGGAGACC GCTTGGTGGC ATCAGCTTGC CCGGCCCGGC CGCAGATATT CCGGCTCGA GAACAGCTCA TGCTGAGAGC  
 CAACAGCTG AAGAAAGCAA TTCGTACAGT CATAGAACAC ACAGAAAAAG CTGTGATGA GCAGATGCC CAGACCCAGG  
 AGCAGGAGGG CTTCGTCTG GGGCTCTNIN AGTCAGAGG GAAGATGAC CACAGAGTTT GNCCACCACT T

SEQ ID NO:761: (Length of Sequence = 314 Nucleotides)

TTTTTTTCT TTTTTTAAAG AGACAGGGTC TCACTCTCTT TCCAGGCTG GAGTGCAGTG GCAACGATCA TAGCTCACTG  
 CATCTCGAA CTCTGGCCC CAAGGGATCC TCCACTTTG GCTTCCCAA GCCTGAGAT TGCAGGCGTG AGACACCTCA  
 CCIGGCTTGT CTGAGAACAT CTTTTAAAAA AAATCCCTTC TCTTGGGTTT TCTGTACCC ATATGCTAC TCAATTTGGT  
 TGTCTCAGCT TTGTGTGTGT AATGCAAAAG CAGCCATAGA CANTACATGC ATTGAATGAG TGTAGTGCAT TCCA

SEQ ID NO:762: (Length of Sequence = 319 Nucleotides)

ATAAAGGTAT ATAAAGTTG AAATTAAAAG ACACATATCA TGAAAATACT AACAAAAAGC TATAATAGCT ATATTATAT  
 CAGGTAAAAT AGACTTTAGG ACAAAGCAT TATTAAGGAA GGGAAAGTTG CTATAATAAT AAAAGGTTGA GTTAATCAAA  
 AAGATATAAT AGTTTAAAC ATTATGCATA TAATTAANIT CCTCAAAAAT AGACAAAGCA CATATTGATA CTTAAGGNAG  
 AAATTGATAA ATCCATCACC ACAGTGGGAA ATTAGGAAGT TTCTGTACAC CTCCTTCACT TGTGATAGG TCAAATGGA

SEQ ID NO:763: (Length of Sequence = 369 Nucleotides)

TCCAACTCC TGCCAGATAT AATTCTAAAA ATCTGTTTGT TAATTTTAT ATTATTTT TGGATTTTAA AATGCTTGGG  
 AATGGGAGA TATGCACAAT TGTCTTGTCT TTGTTACAA AATTAAATGC GTATTGGGT ACTTATAGGA CACTATTGT  
 AAAACATTT ATTTCTTCAG ACATTGATGG TCTTGTCCA GTTATTAACA ACATCTACAT GTTTAAGAAT AAATTTCTTA  
 TCTACTCTT ATCCATGA AAATTACCTT TCTATCTCC TACTCTGGAA GTCTTTATGN ATTCTGTCT AATCAATAGT  
 ATCCCATGC TTCTCAAGA GGATGTCTGT CAGTAGGAA TTCTCCCA

SEQ ID NO:764: (Length of Sequence = 381 Nucleotides)

CGGTAGCAG TTGCTGAGTG TCAGCTAGAC AGCAGCGACT AGGGCTCGGG CCGCGGCGAG ATGCTTTTNT TCACGCCAA  
 CCCCCTGAG CAAGACGTGG AAAAAGCCAC GAATGAGTAC AACACTACAG AAGATTGGAG TCTTATTATG GACATATG

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ACAAAGTTGG AAGTACTCCT AATGGAGOGA AAGATTGCCT AAAAGCCATA ATGAAAAGGG TAAATCATAA GGTTCCACAT  
 GTTGCTCTGC AAGCACTAAC TCTTCTTGGG GCTTGTGTGG CAAACINTGG AAAGATATTT CATTTAGAAG TATGTTCCCG  
 TGGATTTTNC AACAGAAGTA CGTGCTGTGA TTAAAAATAA GGGCACATCC TAAAGTATGT G

SEQ ID NO:765: (Length of Sequence = 329 Nucleotides)

TTGTCIGCTT GATGCAGGAG CTGAGGAGCT GCACAGAAGG TTAAAAGAGC TGTAACACAA ACAGGGCTGC AACATGCCCC  
 TTGCTCCCCA CAGGGAGAGA AGAGCTCTGG CCTCGGAGA AGCCAGACC TGGGAGCTCC TTGAGCCCGG GCTGTGACTC  
 CCTCTTTGGG GCCCTGGTTC GCGTCACTGC ATTGCGCAGT GCGACTGTTC GAAGCTGCTT GTNATGCGCC TGGTCCAGGG  
 GGAAGCTGTT TGTGTGTGTC CTGGTCCAGC CACCTCATGG AGAGCCTGTG CTGGCACCTG GGAGCTGCCC AACCTGGGCA  
 GCAAGCTTT

SEQ ID NO:766: (Length of Sequence = 321 Nucleotides)

GCAATGGCAG GTAGATTTTA TTGGCCTGGG ACACACAGGG GATACCCCTA CCCACGATGG GGTGGGGGGT GTGGTGTGTA  
 AGATATAATC TNATGGTCAC TTGTGGTAGA ATCGGGGTT CTGGCTGINT TGGATGAAGG GGAGCCGAGG GCCAGGTTGG  
 CTGGTAGCTG CAAACCGAC TTCTCTGCTG GCTGCATCTG CACAGGGAGC TGGGGGGAAG CAAGGAGTCC AGGGGCTGGA  
 TGCAGAGCTT GAGTCGGAGA AGCCAGTCTG CTGGTTAGCA TGINCCATCT GCTTTINCAA GGCAGGGCA CCACCAGGCT  
 T

SEQ ID NO:767: (Length of Sequence = 313 Nucleotides)

ACCGCCCTC TAGTTCATA TTCTGTCCCC GGTACCCAGG GCATCATAGA CACTCAACAA CCATTGCTTG AATATGCAAT  
 TGGATGAAT GAATAACGA CCAGAGGAAT AATCCAGACA GAGCAGCAGT GGCCAAGGA AGGGAGGATT GATTTATGGG  
 AGAAAATTAG GGGAAATGAA TCCATAGAAA GGGTTTGCTT AAGTINAGAGT GATGACTINGA GCCAGAAGAC ACCCGGGGGA  
 GAGGAATTNT TTCACATGGT AGGAAAAGGG GAGGAGGGAG AGAGGTGGGG TGGTGGAGTN CAGCCTOGAG GCT

SEQ ID NO:768: (Length of Sequence = 372 Nucleotides)

TCTCTCTCT GCGCTTTTAT ATTCTGACG TCCTTAGTAA CCCGTGCGC CCACTTCTTA CTTAGGTCTC TCCTAACATG  
 TATCTATGAC ACATTGATCC CTAACAGCTA TGATTCTNCT TATACTTTIN CAGTAATTA AATTTTATCA TTCTACTGCT  
 TGTTCATAC ATCTCTCTAT GTAAATCTTG ACTCCATAAT GAGGTTTTTA ACTTOGAAGG GGTGGAAGT TATCTGCTGC  
 CTGGTACCC CCCCOCATT ACACAAGAGT ACATTTTAAG CACATTACAC CTGAGTGATT GINGTAAAC ACAGATGCAA  
 TCTTCCACC ATCTCTAGG AATTCTCTG TGGGCTTCC ATGGGTTAC CC

SEQ ID NO:769: (Length of Sequence = 321 Nucleotides)

GCAGCCAGAG CTCCAAGGCT CCCCAGGGG AGGTGACCGC CGAGGAGGCA GCAGGCGCTT CCCCAGGAA GGCCAACGGC  
 ATGGAGAATG GGCACGTGAA AAGCAATGGA GACTTATCCC CCAAGGGTGA AGGGGAGTGG CCCCCTGTGA ACGGAACAGA  
 TGAGGCAGCC GGGGCCACTN GCGATGCCAT CGAGCCAGCA CCCCCTAGCC AGGGTGCTGA GGCCAAGGGG GAGGTCCCCC  
 CCAAGGAGAC CCCCAGAAG AAGAAGAAAT TINTTTTCAA GAAGCCTTTC AAATTGAGCG GCTGTCTCT CAAGAGAAAT  
 C

SEQ ID NO:770: (Length of Sequence = 364 Nucleotides)

TTAAATCAGG AAATGTGATG CCTCCATCTA TGGTTTTTGA AAGTCATCAG CCAGAGCTAA GGTAATGAGG ATTCCCTCCT  
 TCAATGTCAT ATGCTTTTAC ACTGTGCACA ACTGTCCCTA AAAAAACAAA CCCCAGGCA ATTCTCCAG GCTTATCGTC  
 TCCCGGTTT CAGTACATT TCAGCTTACC ATTTTCAAAA TAACATTG TTCTGGGAG CAGTCTATA TATTATTTT

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ACCTCTCTTG TTATCCCCAC TTTTCAITGCT CTATGTCCCA TAGGCAATTT GACAAAGACT GCTTTGACAA AGGATTCCCTA  
GACTTCTATC TCTACCTCTC ATCTGACTTG GCGGAGGAT TAGG

SEQ ID NO:771: (Length of Sequence = 357 Nucleotides)

CAGCTCACTG CAACCTCCAC CTCACAGGTT CAAGTGATTC CTGCGCTCAN CTTCCCAAGT AGCTGGGACT ACCGGTGCAC  
ACCACTAATG CCAGCTAATT TTTGTATTTT TNATTAGAGA CAGGGTTTCA CTATATGTTG GCCAGGCTGG TCTCAAACCTC  
CTGACCTCAA GTGATCGGCC CACCTCGGCG TCCCAAAATG CTGGGATTAC AGGTGTGAGC CACCATGCCC GGCTTAAATT  
ATAGCTATTT TAGAATGTTG AAAGTAGTAT TATGTGATTT CAGTTTGCCA TAAATTTTTC ATATGGTTAC TAATTATTTT  
TNTTTTGTG GATATATCT CTGGAATCT ATTGAGG

SEQ ID NO:772: (Length of Sequence = 359 Nucleotides)

CTCTCAGGA AAACACCTAG ACATTATGTA ATGTATTGTA AGATTAAATG ACCCTTTAAC CAGCAGTTGT GTACCTAGGT  
ACAAACTTTG CAAGCACACA CGCATGINTG TNCCAAAAG CACATACAAA AACACTCCTA ACAGCATTAT TTGTAATAAT  
AAAATATAAG AAATTACCTA AATATCCATC GACTGCCATT GGTAGTATGG TTATACAATG GAATTCTACA CAGCAATGAA  
AAGGAGCTAG AGCTACATGC AACACATGG ATACAACCTA CAAACGTAAG ACTTAGTGGG AAAANGCTAG ACACAAAGTT  
AACACCTTCT ATATGTGGGT TCCAGTTATA TAAACCCA

SEQ ID NO:773: (Length of Sequence = 361 Nucleotides)

GAGCCTACGG CAGAAAAGA AACATCTTCC TATAAAACT AGACAGAATA ATTCTCAGAA TCTGCTTGC GATGTGTGCG  
TTCAACCCAC AGAGTAAAC TTINCTTTG ATAGAGCAGT TTGAAACAC TCTTTTGTGA GTATTNCAT GTGTATATTT  
AGAGCGCCTT GAAGCCTACG CTAGAAATGG AAATATCTCC CCATAAAACC AAGACAGAAG CAATCTCAGA AACTAATGTG  
TGATGGCTGC ATTCCACACA CACGGTGGAC CATTTCTCTT GATAGAGCAG TTTTGAAACA CTCTTCTGT AGAATCTGCA  
AGTGGGATAA TTGGGACCTC CTAGAGGGCC TTCGTTGGAA C

SEQ ID NO:774: (Length of Sequence = 387 Nucleotides)

GTTCGCTCT TGTTGCCAG GCTGGAGTGC AATGGCGCAA TCTGACTCA CCACAACCTC CGCCTCCAG GTTCAAGCAA  
TTCTCTGCC TCAGCTCCC GAGTAGCTGG GATTACAGGC ATGCGCCACT ACCCCAGCTA ATTTTGTATT TTNAGTAGAG  
ATGGGGTTTC TCCATGTTGG TCAGGCTGGT CTGAACTCC TGACCTCAGG TGATCCGCT GCCTCGGCCT CCCAAAGTGC  
TGGGATTACA GGCATAAGCC ACTGCGCCA GCCAGAAGAT GCATGATTTC TTAGGATCAT ATGCTGTTTG TAGCCATAAG  
GTAAATCATG TCTCTTCCAA TCATGACTTT TGGGAACCTC CTGAATAATA AAAATGAGAG TTGAGAT

SEQ ID NO:775: (Length of Sequence = 401 Nucleotides)

GAATTINTCT TTCTGCATCG TTCTGTCATA AAAAGGGGTA CTACTATAGA ATAGAATGCA GGCTTAGGAC CCCCCTAAGC  
TCACTGTTCA ACCCAGCCCA GCAAACCTGGT CAGTTATAAA TTTTNTGCA GGTCCCTGAA ACAACAACAA AAAACTGGAT  
GAGGTTTCCC TCCCATCTTG TTTTATGTCC TTGGGAGCTT GACCTTATAA CCATACGGCG GTACTTTTNC TTGGTCTCTG  
CCATCCAGGG AACCAGAATT TGGGGGGTTA TGTATAGTT AGCTCTAAAA ATTATCTTGA GCAGTTAAAA GCCTTTGCAA  
GCTTAAATTT GACTGCTGTA GGNTCCTTCT GGGGAAGGAG CAATGGGAAA CCTTNCCTAA GCTTATAGCT CACCAGCTG  
A

SEQ ID NO:776: (Length of Sequence = 345 Nucleotides)



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TGTATTGACA TTCTATTTC TTTCTCTCC AGATACTATT TTTNGGATTT NAAACATACA CAATACTTAG GAGACTTGTT  
 TTACTCAGAG TGGAAAATTT TNCAGGGAC AAAGTCAACA CAANGAAACA AACAACAAA AATAGCCAGA AAGAGAACAG  
 TTAAGTGCAG CTCGGTGAGT CCGGCAGTT CCTTCCCGGC ACTGGCTCGT CCTGGGGTT CTCAGGTT CATGCCGCCA  
 CAGCGTCCGT CCACCTGTTC CACGNGAGCC ACATGCTGGA ATT

SEQ ID NO:783: (Length of Sequence = 350 Nucleotides)

CATTCAAGCC GGGCAGCTG ACTCATGCTT GTAATCCAG CATGNTGNA GACATAGCAG TAGGGACTAT CGACAAAGAA  
 ACACACAGAG GGAAAAGAA TTCCACATT GGGAGGCTGA CGCATGAGGT TCACCTGAGG TCAGAAGTTC AAGACAAGCC  
 TGGGTAACAT GGTAAACCC CGTCTCCACT AAAAATACAA AANTTAGCTG GGCATGGTGG CCTGGGGCTG CAGTCTCGAC  
 TACTTGGGAG GCTGAGGCAT GAGAACCTCT TGAACCCGGG AGGTGGAGGT TGCATGAGC AGAGGTCATG CTACTCTCAA  
 GCCTGGGGCA ACAGAGCGAG ACCCTGTCTC

SEQ ID NO:784: (Length of Sequence = 265 Nucleotides)

ATAACTGAAA AATGGAAGAA AATATTTGCA AATTACACAT GTGAAAAGCA GTTAATATCA AAAATATATA AGANACTCAA  
 AGGACTATAC AACAAAAAC AAATAACCAT GAAAATAAG CAAAAGATAT ATATAANTNA TTINCAAAGA AAGACATACA  
 TATAGCTTGG CAGATAGATG AATATGGCTC AAAGTCAATT ATCATCANGG AAAGGCAAAC CAAAACAACT CTAGATATA  
 AACTCACTCC TGTTAAANTG TTAA

SEQ ID NO:785: (Length of Sequence = 363 Nucleotides)

GTAAAGNTTG AGAAATCGGA TGGTGTCTGT GTCTGTGTAG AAAGAAGTAG ACATGGGAGA CTTTTCATTT TGTTCTGTAC  
 TAAGAAAAAT TCTTCTGCTT TGGGATCTG TTGATCTATG ACCTTACCCC CAATCTGTG CTCTCTGAAA CATGTGCTGT  
 GTCCACTCAG GGTAAATGG AAAAAAAGAA AGAAAAATGA AACCAGGAGT TGGCAATTAC TTTTTTTTTT TTAAAGACA  
 GAGTCTTGCT CTGTACCCA GGCTGAAGTG CAGTGGTGAG ATCTGGCTC ACTGCAACCT CCACCTCCA AGCTCAAGTG  
 AATCTCCAT GCCTCAGNCT TTCAGAGTNA CTGGGGATTA NAA

SEQ ID NO:786: (Length of Sequence = 291 Nucleotides)

AACAACAATC AGCCACAATG TGCTTTTAAG GATTTAACAG ATAGTAAAGA TAAATGTGAG TMTAAGAAT GGGATTTTTA  
 GACTAGGCTG ACACAAGGGA TCTTCTTNA ATAAGGNTCT TGAGCATTG TMTTTTGA GCTCATCCTT AAGGGCTGGA  
 CAGGAAGAAT CCTGTGTTAT GTGTGATGT TGAGCAATGC AAAAACACT CTGCCAATC CTNGATACCA CATGGTCTNG  
 AGAAATGCAT GAGTGATTGA ACGCAGGNT GGGGTAGTC ATTAAGTTCC T

SEQ ID NO:787: (Length of Sequence = 256 Nucleotides)

TATTTCTGTA TAATTTINAT TATGACCATA AAAATAACAA TGTAAGTCAAT AACAAATTTAA TTGTACATTT TAAATAAAT  
 AAAGTATATA ATTACACTGN TTGTAATAAA AAGTATAAAT GTTAGAGGTG ATGGATACCT TATTTACCTT AATGTAATTA  
 CTACACATTG TAGGCTGAA TGAAAATATG CCATATAAGG CATAAATATA TACACATACT ATATACCCAC AAATACCAAT  
 AATAAATTC AATAAG

SEQ ID NO:788: (Length of Sequence = 322 Nucleotides)

GGTCCAATGA AGCTTCAACT CGTTTTCAGC TCAAAGCAGA CGGCAATCA GCAAAAAGCA AAAATAATGT ATCTTACTGC  
 ATTACAGACA AAAAAAAGAA AAAAAACAGA GTGAAACTAG ANCTATTTTC AATAGTAGTT TTCTGACAGC TATATAANCA  
 AATATAGANG ACATTATGGA ATTAGTGATG TGAACGAGAA CTGTCCATG TATCTGCCT GCCAGCAAAG GTAGAGATGG

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CTGATATATT TGTAAATGGTT TACTATGAAG GCTGTTCAT AACCTINCAAT ATCCACTGNT CTGGGGTGGT ATACCAAGGA  
TA

SEQ ID NO:789: (Length of Sequence = 357 Nucleotides)

TCAATGTGGC ATTGTGTTTT NTAGAAAAC CCTTAGTAA GCATTCTCT AACCCAGAAT AGACACTGGG TATCCTCCAA  
GAGTCCATA GCTTTCATTT CATCTTCAC CCTTCTGA GAGGGGAGG CAGGGGATAG GGGTGGTGC AGGCAGTCTC  
CAAAATGCC CTCTAGACC CTGAGAGAA TTCATGTTC CAGCAATAA CCAACAGCAC CTCAGTGGG CATCANAGG  
CCTCTAGGC TCAAGGCTAT TGCCAAAGG CATCTGTGTT TTATGAGCTT CAGATGGGA ACCAAGGNAG GCTCTGCAA  
GACTTCTAG GGGCTTGGTC CTCAACTTA TGGGCT

SEQ ID NO:790: (Length of Sequence = 366 Nucleotides)

TGGCCAGGCT GGTCTTGAC TCCTGACCTC ATGATACACC CGCTTGGCC TCCCAAAGTG CTGGGAATAC AGGCGTGAGC  
ACTGCACCCA GCTTGTGTG ATCTTTTAAA GTACAGTTC CATAGATTTA CATTAAGAAT AAAAAAGTCA TGACATCTG  
CTTTTATATG GCAGTTTACT CAAGCTTTT AAAGAAAGAG CATTCATCTT GCTTTTACGT GGTTTTAGAA TGTGAAAC  
CTTTGNTAA ATCTAGTAA TTTACTGCAT TTCCATTAA TTCAGCTTAG TTAGACTGCT GGTCCAGTG CTTGTGTTG  
CTGTACATA TACCCTAATA TGCTTTTAA CATATGCCA AATTC

SEQ ID NO:791: (Length of Sequence = 317 Nucleotides)

AACAACTCCA ACCATAATGG AGAAGGAAT GGCCAGATG GCCACTCTGC AGCGGGCCCT GGTTTTACGA GCAGAACTGA  
GCCTAGCAA TCTCTGGAA GTCTGCGTA TAGTTACAA GATAGTTTCG GGTGAGCGT GCCAGAAAT GTCAGTGCT  
TTCTCAGTA TCCTACAGG CAAGAAAGG GAGATTTCAC TGCCATGGG GAACGAAAG GTAGAAATGT AAAATTCCCA  
AGCTCTCTG AGGAAGTCT TCAGGNTAC CACCACCACC CTNACAAGN GATATTCTAG GGGTACTCA AGAGCAT

SEQ ID NO:792: (Length of Sequence = 258 Nucleotides)

GATCAATATA TCCAGGAATT TGTGAAAGA TCCTAACTT TTCAAACATG TCACAGGTAG TACTTGAAGT ATGCTGGTA  
AAATGTACCG GTTAAAGCAG TATGTTCTC AGATAGCTG AGATTTTAT TAACAATTAT GTATCTAAGT CTACTAATAC  
ATTGAGCAA AAGAGTGTG GTTNCATAA TAAGANGTCA GTATTTCACT TAGATTATTT CAGAACTTG TAAGTNCCTG  
TAAATAGCTA CTCTGAA

SEQ ID NO:793: (Length of Sequence = 282 Nucleotides)

GGAATGACAT GGTCAATCTN ACTTAAAGA AACATTTAG GTTCACATT GCAAGTTAG GAAGAAAACC AACCTAGAT  
CCTTCCCC CCACCAATAC TCCTTCCCC AACACCGTC CCCACCGNC TCTATGTTA ATTGAATTT TATTGTGAT  
ATATAGAAA CCTAACCAT GGCTGATATG CTGAGTGTCA TTGGCTTCA AGCTGAAAC AGGNACAGC TTGGCTGGA  
ACCTGAGAC AAGATGCTG CCTCANAAGG TGGGGCTCA CG

SEQ ID NO:794: (Length of Sequence = 330 Nucleotides)

GTGAGGCTG CAGGAGCCA TGTTCACCC ACTGCACTAC AGCCAGGTG ACAACAAGAA CCTTCTCGG CGTGAACCA  
GGGGCGGAG TTGAGTGAG CCAAGATGT GCCACTGCAC TCACCAGCC TGGGTGACAG AGCAAGACTC CGTCTCAAAA  
AAAAGTTTAC TACTCGGCTT TAATTATTT GTTGGGTTT TGGGTGAAAT NATTTTATA CTGACTGGTT CCTAGTTGT  
ACAGAAGCCT ATTATCTTTA GAGAGACTCT TCATGGTAA TAACTCAGAT TCTTATTTG CTGGGTGAA AGGANGGCAA  
GTGGATCTAA

SEQ ID NO:795: (Length of Sequence = 332 Nucleotides)

GGAAATAAAG GTGACATGAA CTAACATATC AATCATGAAT GGTAGAAAAA AATGAAAATG TAACGAGATG GGATCCGGGT  
CAAAGTCAGG GGAGGTATAG TTGAAGATAT TGAAGGAGTC ATTATGATAC CAAAGAAAAT GGAAAGANGT GGTATCCAGA  
TAGGTATCC TTGGAGAGTA TCCAGGGATG TCTCTTNC TAAGACCTTA GAGAAGGAAA GGATGGCTGA TAATATAGGG  
AAAAGTTGAC ATGGAAGGAT TAAATAATTT TTNAGAATT CACGTAAGGN ATGATAATCT GAATTTCCAG GGCTAGGCTC  
AGAAGCAGAA AT

SEQ ID NO:796: (Length of Sequence = 305 Nucleotides)

CCCAAGGGGA CAGCCTGANC TCCCTGCTCA TAGTAGTGGC CAAATAATTT GGTGGACTGT GCCAACGCTA CTCCTGGGTT  
TAATACCCAT CTCTAGSCTT AAAGATGAGA GAACCTGGGA CTGTTGAGCA TGTTTAATAC TTTCTTGAT TTTTNCCTC  
CTGTTTATGT GGAAGTTGA TTAAATGAC TGATAATGTG TATGAAAGCA CTGTAAACA TAAGAGAAAA ACCAATTAGT  
GTATGGCAA TCATGCAGTT AACATTGAA AGTGCAGTG AAATTGTGAA GCATTATGTA AATCA

SEQ ID NO:797: (Length of Sequence = 337 Nucleotides)

GGCTGCATTA TGACAAGAAG TCAAGCTTCA TGACAGTTAG TATGGGCTGG AGTCTGCAA GTCTGAAGTG TATTCTCATA  
GAATGATTCC AGGTTTCAGG GTGTTCCACC TGCCAGAAC CAAACTACA ACTATGGCG ACACAAGGGA AGTTTTAGAA  
ATCTCCCTCT ACACGCATTT CTGGTTTTCT ATTATCTCT CATGCCAGCT GACAGATCTG GAAGTGNAAA TAGGGGATTC  
TCAAAATCAA AGCCANGAAG ACACCTTGTG TGACACCAAT GGAGTCTCAG AGGGTGGGAA TAGAAGTGAC TTNGNCCAG  
GCATTGCTG GGAACCT

SEQ ID NO:798: (Length of Sequence = 341 Nucleotides)

GAACCTTGA AGGTCTAGG TACAGTGAGC CATGTTTGA CCACTGCACC CCAGCCTGGG TGACAGAGTG AGACACTGTC  
TCCAAAAATA ATAGTGATAA TAATAATAGT CATTTATTT AAGTCTACAT GCTGAGATGC CAGAACAAGT AAAATTGGAT  
TATAGATTCA AGCAGTATGT AGGTATACCT TCATAAAGTG AATAGTATG TAATTTTGA TGATTAAAA CAGNCTTTTA  
GTAGGTGTTT AAAAATCTGG NTAATTCCTT TCATGNCAT CAAACATTTA GGTGGCCTGT CTTGTTTTT TTAGGTATA  
ACTTGCAAAC ATTCANITGT T

SEQ ID NO:799: (Length of Sequence = 322 Nucleotides)

TTTTGAGTA ATGAATTCAT TTAATATAAA CTCTAGTATA GCAGAATACT ACAGGTACC CACATTTAAC CCTAAAAACA  
AACAAATGAC AGGCACCTCA GTGAAATAAC AAGCCCATGT TCAATATAA AATGCTAAAA GTGAGAAAGA AATTATGAAA  
ATATATACCT TTAATTTGCA GACATATAAA CACTTTTGGT ACAGTACAGA TGCATGATGC CAAAAAGTAA AATGNTCCAG  
TTAAGCTAA CACATTCCTT GTTATACAG NTAATTTTNC TATAGCTCTC ATATAANANA AATATTNCCA GCTCACACAA  
TG

SEQ ID NO:800: (Length of Sequence = 405 Nucleotides)

ATCAAGAGTT GTGTGGTCTA CCGACTGAGC CTGCCAGATA ACCCTGTAGT ACAATTTTIN CAGCATAGTG GAAAAGAAAG  
CCATGGNCTT GGGCAGGTCA GGGTTTGANC GCTAGTGCNT TGTATTAATG ATCATGATGA TAGCTAGTAG ACAGGGCTTA  
CCAGATACTA GGTGCTCTCT TAACTGCTTT ACATATGTA GTTAAGTCAAT TTAATCTTCA TGACATCACC CCTGAGATAT  
GGGTAAATAT ATAATGCACA TTTTATAGGT GATGAGAGTG AAGCACTTGC ACAGATTACT CCAGCTTAGT TCATAGCAGA  
GCTGGGACTT TTAAATCAAG GCACTAGATG GTTCAGAGC TTTGTACTAC TCTTCTGGG TCTTTCACAG TCTGAGCTGG  
TCCG

SEQ ID NO:801: (Length of Sequence = 408 Nucleotides)

CTGGGTTCCA TGTAGGTCT TOCACAGINC TCIGTTATAA GATGGTTTGT TACATGCTG CAGATATTTT TGCATGTCTC  
TTGAGTTTCT CAAGACCAGG GTTGTATTTT TCCATGCTG TCGATGAAAC AGTACATGAC AAAAGAAGGT ACTTAATACA  
TGTTTGATAA ATTAATTACT GTTTGGTAAA TTAATTATTG AAGGAAGACC CAGACTGGTT CTGATAAATC ATTGATTACA  
TTTACAAAT TTGGATAAAT TAGGGGAGCC TTGAGAAGTT AGAGCTCTAG GGAAGGTTCC AGGGAACGTT TGAAGGATGT  
GAAATATGGT TTTCAAAATT CATAGTTTAT TGCAGGATTC TGGNATACIT TCCCAAGTGA GGGGNAAGAT GAGGAAGANG  
ATGGGCTT

SEQ ID NO:802: (Length of Sequence = 343 Nucleotides)

ATGAGACTTA CTCACATCA TAAGAATAGC TTGGGAAGA CCCACCCCA TGATTCACT GGGTCCACC CACAACACAT  
CAGAATTATG GGAGCTACAA TTTAAGATGA GATTTGGCTG TGGACACAGC CAGACCATAT TAGACTCATA ATTTGNCITC  
TGACAGTAA GANCTGGGCT GGGATACCTC ATAGATCATA AACAAATCCG CACCCATGAA AAGATTTAGA GAGTCACACA  
GGAAAGTCAA CAGAAGNCAG AGAGATGTGG GTCCTGGNCT TGCATGTCAT TAAGTGGTGG GNTCCTTCAG CTTTCACATN  
TTCAGGCAGT GGGGTCAAGA AAC

SEQ ID NO:803: (Length of Sequence = 182 Nucleotides)

GAATGGCCTT NCTAACGGC ATGTATGACT TGCAIGANCT CTCTAAGCT GAACTGGCT CACCTCANCC TGTCTTGCTG  
GCAAATGCGG CCTTCAGTGG GAAAGTAAAT GGCAGCTGCT GINATTACCT GGTCGNIGAA GAAAGACAGA TGGCAAAATT  
NATGCCITGT GGGGATGACA GC

SEQ ID NO:804: (Length of Sequence = 312 Nucleotides)

TTTATTTACT GCGTTGTAA ATNATCACA AACATATTCA TTGTCAAGTG AATGCACAGG CTTTCAAAGG TGATTGTATT  
CTGCAAGGTG GGAATAGCC AACTACCTTC TAAGTGAAT GINCAGCTG CCATTTOCAA CCCCAAACT CCTCTAGATT  
CTCAACAGGG CAGCTTCTGC TTATGCTC TTTTGGAAA GGTACGCCCT GTGTAGAAGG CTTAATACCA ACATGCAGAT  
CCACCTGAGA ATCACTGGAA TGCTCTGGAC CCAGCTGGAA TGCTTCGGGA ACCCAGTCAG GCTTNOGGAA AT

SEQ ID NO:805: (Length of Sequence = 411 Nucleotides)

CATGCAAAAT TCAGAATATA AAAAANTGCA GGGCCTGGTT GCCACATAC ATTCCCTCAGG TTAAGGTGGA TTTAAAGATG  
CCCAACAGAA CCAATGAAT CAGAAGCTAA AAGGACACT TCAGTGATCA GCAGAGCAT TCTCTCAGT AACAAATGGA  
GGGAAAGTGA GCACACATTA ACTAGCGAAG TCACAAGGCT AGATTAGGGG TGTACAGAAA TCTAATTCCT GTTGCTATTT  
GCAACTACAT ATATTTAAAA TACANGGAGA TAAATACCCA GAACACATTA AGCCTACTGA TTTAAACAGA NCATTTCAAG  
ACTGCTACAC AGAAAGGGAA GGAAGCTGT TAACCAGCA CAGCAGCACA CCTCACATAT TCCGTCTCA GAGGTTAAAT  
GGGAAGGAAG G

SEQ ID NO:806: (Length of Sequence = 287 Nucleotides)

GCAATTNAGT GCTGATACAG ATACAGTGAG TTCTGCCCCT TTCTCTCCT NTATATTGAA GGGATTATAA ATGAAGCTCT  
TTAAACATTC TGAGATCINT AAGTTGATTT CTACATGAAC TCCAAGTGGT GTTAATGACA TTTTCAGAAA AGATGCTTTA  
CTTAGCTGAC AAGAAAAAGT ACTCTGTAG CCTTTATTG TATGTGATAA AACAGAGTTG ATAAATAAT CTACTATTAA  
CTTATCAATG CAGTCTTACA GAATCCACCT ANTACAAAG TAGATAA

SEQ ID NO:807: (Length of Sequence = 369 Nucleotides)

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GGCAGATATA ACCTTTTCTC AAACATCTCT AATGTCTGTC ATACCCCACT AATATTGGCT ACATAATACA TTTATTTTIG  
TCATTTGGGA CTAAGTGCCT TACTTAGITT TGINCAGTGT ATTCAATTAAT TGAAGAAATA CTTATTCAGG ATTTCTATTA  
CTTAGTTTIG CTCATATAT TCACTAATTG AAGAAATATT TATNCAGGAC TTCCATTATA TGAGCACTGG CCTTTGTGGT  
ACAAAGATAC AACATGAATC TGAACTCAA TTTAATCTAG AAAGATTAT TAATATAANC TCATCAGAAA AGCAAGNCAT  
CTACTGTGAT AGCTACAGTA TTGGTTAGAA ATGGAAAGAG AGAGCAGAT

SEQ ID NO:808: (Length of Sequence = 361 Nucleotides)

CAGGCTTTGT ACCAGCCGCC ATACTCTCCA AAAGATGTCC CATCCTTTIN CTTTCTTTIG CATCTCTCTC TTTCTTCAGC  
ATGCATCCAG ATGGGTTTAT TTTCAATATC TACAGAACCA AACTCCCTTT CATGTGCAGG AGTGAGAATC TCTTTGTACA  
GIGTTTCTGC TTGCTTGAAC TTTCTTGTGT TCAATAGCA GGATGCCAGG TTATTTTINCG TCTTAGCCAC GTTGGGGTCA  
TCAGGTCCCA GTTTGTCTG GTAGATCTCG AGGGCTCTTT GATAATAATA TTCTACTTCT TCATACTTGC CCTGGGTCT  
GGCACAGTAA AGGCCAAGTT ATTTAACTGC TTGGCAACAT C

SEQ ID NO:809: (Length of Sequence = 353 Nucleotides)

CTAATTTATC TTCATGTCCA GTGAGCAGTG TTGCGTTTTT CCTTGTAGCA TTGGGAAATG ATTTACTGGA ATTACAAAAC  
CTATTTTCCC TTAAATTTT AGCTTTGGCT CTGGCTGCTT TTTAGAATAA TGCAAGATAA AAATCACACC TGAGGGCTGA  
AAACGGAGAG GGAATGGGAG ACTTGATATT TAAGCAGCTT GAATGGTTTT CCMITNCTTT ATTTTAAAG AAATGCATTT  
GCCTATGATA CTGTCTCTCC AGTGAAATGA TTACTCTCC ATTACTCTAT TGATACANTA TTGTGCATGC TAGTGTGTGA  
TTTCTATACA GTAGCTTGAA AATTGATTAA CCT

SEQ ID NO:810: (Length of Sequence = 296 Nucleotides)

GAGGTCAATG CTTCCAGGC TCGAGTTGAT GCCCACAGGT GTATTGTACG AGCATTGAAA GATCCAAATG CATTTCTTTT  
TGACCACCTT CTACTTTAA AACCAGTCAA GTTTTGGAA GCGGAGCTTA TTCATGATCT TTTAACCATT TTTGTGAGTN  
CTAAATGGC ATCATATGTC AAGTTTATC AGAATAATAA AGACTTCATT GATTCATTG GCCTGTTACA TGAACAGAAT  
ATGNCAAAAA TGAGACTACT TACTTTNATG GGAATGGCA GTAGAAAATA AGGAAA

SEQ ID NO:811: (Length of Sequence = 493 Nucleotides)

CCAGGAGCTT CTCCTCTCTT GCCAGGGCTA TGAGCAGAAA CCTCAAATAA ACCCTGGGCA GAGAAAACCA ACTTAATGAA  
GAGGAGGTTG CTGTTTCCAC TGGCTTCTAA TTTTGCAGAT GCAATGAGCA CTTACGGCTT TTGCAGTGGT TCAGGAAAAG  
GCAAGAAGAA GCAGATTGTC ATGTTCCAAA GCGCTCTGAT GGCTGCATGG AGCCAGCGGT GCTGTGACTT TTTTAAATAG  
CTTCAGTACC TTINATAGT ATGTCTTAT TTACTCTTAA TCTATGCTCT CTCTCTCCA TCAGCCTGGG AGCTCCCTGG  
GGCAGGTCTG TTTCTCCCT CCAGTCGGA NTGCGAGGA GCTGTGCTC CCCATCACA CTTGGAGGCT GTCTNAAGGC  
AGGGGCTGTG GTCTCTGCCA TTAGACTINGA AGCTCCCCAA GGTAAAGGT CATATCTCA AAAAAGCTTA GAATAGCTTA  
GGAACCTAGG GGT

SEQ ID NO:812: (Length of Sequence = 337 Nucleotides)

AAATTCACAT ACTTGTAAGT NATGCAAGCA AATCTCACA TAATTATTTT TAAATGCTAG ATAGTTGGTA TAATTNCAAT  
CATTTTAAAT ATGTTAAGAC TTGTTTGTGA CCTAACATG AGGTCTATNC TGAAGAATGT NCCATGTGCA CTTGAGAAGA  
ATGACTGGAG TGINCTTAT ATGTATGTA GGTCGAATTA GCTTATAGAA TTGCNCTAGT CCTCTATTTC CTTATTCANC  
TTTGTGTTGG TTGTGTINCT ATCCATTAT AAAAGTGGG TATTGAAGTC TCCTACTATT ATGTGTCTAT CATCTCAGC  
AACTAACAC AGGANCA

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SEQ ID NO:813: (Length of Sequence = 310 Nucleotides)

AGGTGGCCTC AGNNCAGCCA AGCTGACCTT GGCACITGGC TGGCTTCINT AAGGCANTAG AGTGCCACACA CATAAGCNCA  
 CCACCTNTCC CCACCTCCTC CCTTCTCTCC CATGCCACCC CACTTGCTTC CAAGGGCTTG GTTCCCAAAG TNACATCCAG  
 GGTGTAAGAG GTTGGGGAAA ACGTCTGCA AGNTGGCTCA GGGATCTNAT TCCATCAGAT GGTCTCATGA ATACTGTGGG  
 AGATTAAATC CATCTCAAAA TAGGCAACCA ATGCTATATT CTGAATNINA GGTCTCTGGA CTGAGTCCCA

SEQ ID NO:814: (Length of Sequence = 361 Nucleotides)

GATTTGAGCC ATCAGAATTC AGCTTTTGTA GATAAGAAT ATGAACATAT TGAATATGA TGAATTAAT GTATATAGTC  
 AGCTTGCTGA ATTATTGGTT AAGCACTACT AACTATATCT TGGTAACTA TGGTGCACT GAGCCACCCC CTAAAGCAA  
 AAGACATTTA GCAGTTCACC ATATTTTGCA ATTAAACAAA TGAGAGCCTA TGAGANTGAA ATGNTTTCAG GTGGAGTTTG  
 ACAATACAAT TCATCINTAA TATATAGGNN NAAATATTTT CTCAAAAATA ACATCTATGT GGTAGGNCCT TAAAAACGAT  
 GGATGVAATG CATGCAAAAT TCTCTGGTAC ACAGACACAT G

SEQ ID NO:815: (Length of Sequence = 301 Nucleotides)

GAATTINACT CTGTITTCCC AGGCTGGAGT GCAATGGCAC GATCTTGGCT TACCGCAACC TCCGCTGCT GGGTCCAGC  
 GATTCTCTG CCCAGCCTC CTGAGTAGCT GGGACTACAG GCATGGCCA CCACGGCCAG CCAATTTTGT CATTTINAGT  
 ACAGACGGGG TTTCACCATG TTGGTCAGGC TGGCCTCGAA CTCCGACCT CAGAGGATCC GCCCACCTTG GCCINCCAAA  
 GTGCTGGGAC TACAGGTGTC AGCCACCACA ACGGNCITAA TTAATACTTC TTGAAATTC A

SEQ ID NO:816: (Length of Sequence = 310 Nucleotides)

ATCTTTAACA TATTAAATA GACATGAGAA AAATGTGICA TTTGATAAAA TGGGGGAAAT GTAATAAATG ATTACCAGAA  
 ATATAAAT AAGCCGTATA TGCNCTTAAG TAAATCGAAT CTAGGCATCC TTAAATGTA AAAAAGGNTG CAACAAGAGT  
 AAGNGCCCA GAATGATGTA AATTACAGGA ATGGGGTGTA ATGTAACCTC TAGAGGAGGT GATGTTTGA AGAAGCAAAG  
 NGATGCAAT GAGAAGCAA ACTTGTTTTA GSCAAATNCT CCTGGGAGTG GGACCAGGCA GCCCCTCTT

SEQ ID NO:817: (Length of Sequence = 225 Nucleotides)

TGGCATGCGC CTGTAGTCCC AGCTACTCAG GAGGCTGNGG CAGGAGAATN CCTTGAACCC AGGAGGCAGA GGTTCAGTG  
 AGTCGAGATT GCACCACTGT ACTGGTCTCA GCTAGGCAA CAGAGCGAGA TTCCATCTCA AAAAAAAAAA AAAGTTAAAA  
 NTAATATGCT AACTATGATA CAACTGATA GCAATATGT CTTAGATTC AAAATAAAAA TAGGG

SEQ ID NO:818: (Length of Sequence = 225 Nucleotides)

TTAAAAAAC CTGTAGTTTC ATTACCTTTT TGAATAATGN CATACAAAA ATGTATTGN TTTTGTGTC TGTGAGAATT  
 GATGTTTGTA GATTAATAAT CATTTTGITT AGAATTACAA AATAGTTTTT AATATTGTC TGAGAAAAGC CAAAGTAAAT  
 GCAACCNAGT GGAAACTGTA AGACNNTTG AGTATTGTTT GTTTTATGG ATGCATTGG ATTTT

SEQ ID NO:819: (Length of Sequence = 280 Nucleotides)

TTGACTAGCT TCCTAGTCA TTAATAATC TTTAAATAGT CTGTCTAAT GGCTGCAAT TTTGTGTAA GTCTGGGCTA  
 AAATCTGATG AAATGTTTTA CCTGTGGTGA AGTAATTTAG CAACTCGTAT CTTTTTAAAA TATTACAAT GGNATTCIA  
 GTACGTACA AACATTGTA ATATCATTA TTTGTGCCA TTGTCTGTC TATGAAATAC AGTAGAATGA AAATTTACTT  
 CAAAGCATTC ATTNTCTTC CCCAGGNNAT GATGGCAAAA

SEQ ID NO:820: (Length of Sequence = 328 Nucleotides)

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CCAGTTAATT TTGTAAAGTT TATAGNGATG GTTTCAGTTA GACCTGTGCT GTCAATACAC TAGCAATTCA CATGCACATT  
 TAANTTTAAA TCTAAGTTTA AATTTAAATT AAGTTAATAT TAAATAAGAT TTGAAATGCA ATTCTCAGTC CTACAAGCCA  
 TGCTTCAAGT GCTTCATATC CATGTGAGGT TAGTGGCTGC TATACTGENT AGTGCAAAAA GAGAACATTA TTGTAATCAT  
 AGAAATCTTA TTGGTAAGTT TATGGGGTAG TACATGGACT AGAATGTAGT GAGGTAGTGA GCTGTGGATG CAGAGAAAGG  
 NCACTGGA

SEQ ID NO:821: (Length of Sequence = 310 Nucleotides)

TCAGCATGTG TTCTGTATG TMTGAGATG ATTATTGGT TTTCCTTTT ATTGTGTAA TTGGTGAAT TGCATCANCT  
 TTAGTATCTT AAACCAACCT TGCCCTCTTA GGGTAAACCT TATGTGGTCA TAATATATAA NCCTTTAAAT ACATTATTGG  
 ATINCTTTTT TTAATATATT GCTGAGGATT TTTCATGACT ATAATCATAA GAGATATTGG CATATGATTT CCTATACTTG  
 TAATGNCITT GTTAGAAGGA GTTTATATTA GGNITTTATNC TGGCCTCATA AAATGGGTTG AGAAATGTCC

SEQ ID NO:822: (Length of Sequence = 372 Nucleotides)

GCCAGATTGT NTTCCTTGG AGCCCTTGAC CCGGCTACT CTTCACCAGA CACGGCCCGG CTTTGGCCCA CAACACAGCC  
 GTCCACCCC TGGTTCCTTC ACCTTAGCAG TAGCAGTAGC TCIGGGTGA GTTGCCAGAG GAGCTGACAG GCCCTCTGCC  
 ACTGCTGCCA CCCCAGGGC TAGGGAGGGA ACAAAGAGCC TGCTTGCTGT GCTTGACAT CCAGCATGCC ACAGCTGCAC  
 TAGGNGAGG AGGTGAGACA GTCCCCCAA CAAGNCCCG ATCCCTCTNC TCTCCACCAG GGAGGGCCCT GGGCTTTGGC  
 CCCACAGNAC AAAACGTTCC ANCCCGGCT GATCAITCTG GGTGGCAGC GG

SEQ ID NO:823: (Length of Sequence = 288 Nucleotides)

AGCTGGCATC CTTGGGAAA ACCAACAAC AGTCTCTCA CAGCCAAAT CACCACAGTA CTCCAATCCG NAACCAAGTG  
 CCGCATTAC AGCCCATCAT GAGCCCTGG CTNCTTTCTC CCCAGCTTAG TCCACAATG GTAAGGCAAC AAATAGCCAT  
 GGCCCATCTG ATAAACCAAC AGATTGCGT TAGCCGCTC CTGGCTCACC AGNATCTCA AGNCATCAAC CAGCAGTTCC  
 TGAACCATCC ACCCATCCCC AGNGCAGTTA AGCCAGNCC AACCAACT

SEQ ID NO:824: (Length of Sequence = 325 Nucleotides)

CTCTGAGGT CAAAGCTGCA CGTGGGGAAG AGAAAGACAA GGAGACCAAG AATGCTGCCA ATGCCTCTNC ATCCAAGTCG  
 GCCAAGACCG CCACTGCAGG ACCAGGAACT ACCAAGACGN CCAAGTCAAT TGCTGTGCCC CCAGGCCTCC CTGTGTATTT  
 GGACCTGTGC TACATCTCTA ACCACAGCAA TAGTAAGANT GTTGATGTGG AATTTTTCAA GAGAGTGGCG TCTTCCTACT  
 ACGTGGTGAG TGGGAATNAC CCTGCTGCTG AGGAGCCCAN CCGGCTGTC CTGGGACGCT TTTTGGAA AGGAAAAGGC  
 TCAGT

SEQ ID NO:825: (Length of Sequence = 318 Nucleotides)

AATCAGCCCT ACAGCGATT CACACCCCC ATTAGCAAAT ACCGTAATAT ATGNCCTAG TAATCATCCT CTCACAATTC  
 TNCCTTCTCT AATTNNCCG TGAGTCAAGT TTCTTGACCA CAATGTTATG CTGAGGAAGA TCTAATGTTT TCCATGGAGC  
 AGAAATTGTT AGTCTCAAC TCCAAGTCT GCCTGTGCAA GCCCTGTTIN CCGTGTCTC ATAAACCTTG TCAGGCATTT  
 ATTTATTCAG CACATATCTA CTGNCCTCTG CACAAGAAT CATAGGTTT TGATGAATTA TGTCCCTTCT GAGTGGGA

SEQ ID NO:826: (Length of Sequence = 287 Nucleotides)

TACAGACTCA GGTATAGGG TGINATTTT TAAGTCAATA TTCAGTTTCA CAGCCAGAAT CTGTGAAGAG AGAACAAACC  
 ATGAGAAAAC TAACANTTTT ATGGTGATTG AGAGGTTCOA AGTNCCTGGN GTTTTAAAAA AATCAGTTTT TAAAGATAAA

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CAAAC<sup>TTC</sup>TAAAA CTAGTCCAAG CACTGAGACA GAGTATTAAA AGATGGTAGC ACACCCAAAG NGCACGGTGG GTCTTGAATA  
GCTAACATGT TTCAAGTAGT GGAGGAGAT GTGCTTAAAT AGTTACC

SEQ ID NO:827: (Length of Sequence = 426 Nucleotides)

TTTTTTTGT TTTGGGACAG AGTCTCACTC TGTCACCCAC GCTGGAGTGC AGTGGCGTGA TCTCGGCTCA CTGCAAGCNC  
TGCCCTCCCG GTTCATGCCA CTCTCCTGCC TCAGCCTCCA GAGTAGCTGG GACTACAGGG GCCCGCCACC ACGCCCGGCT  
AATTTTTTTG TATTTTTAGT AGGACAGGG TTTCACCGTG TCAGCCAGGA TGGTCTOGAT CTCTGACCT CATGATCCAC  
CTGCTCGGC CTCCCAAAGT GTTGGACTAC AGGCATGAGC CACCGCGCCC GGC CGGATGG TTAAACATT TTAATAATA  
ATATTTAGTG CTAAGACAGG ATATGGAGCA ACAGGAATC CTATATGCTT GCTGGTGGG AATGCAAAT GGGTACAACC  
ACTTTTGGGA CAAACAGTTT TAGTAA

SEQ ID NO:828: (Length of Sequence = 402 Nucleotides)

GGCTGCTTGC TCCACTCAA CAGGTATCTG GGAGCCAGCA CTCGGCAGT CCTCTAAGC TCTAAGCTG GTTTTACTGT  
TTTNNAGGTG AAACCTTTGT OCTGGGAAT AGTCTGCCCC GCTCCTTGA ACCACACTCA GACTCAATGG ACTCTGCCTC  
AAATCCACC AACCTTGTCA GCACCTCCA AAGGCACCG CCTTGTCTT CATCTGTGG CCTCCACCA AGCACTGCCT  
CAGCTGTGG CAGGCTATGC TCCAGGGTA AGCTTACCAG AGTCTGCCC CTNCTTCCCT CCTCACTCT TTCTTCACT  
TCCTTCTGA GCTCTGGGAG GCCAGAGAGG ACCTAGCTCT GTTGCCTCT GNCINGTGT GGGACTAGG GACTGGACTT  
AA

SEQ ID NO:829: (Length of Sequence = 417 Nucleotides)

ATCGTTAGG AGTOGGCTT ATGTGGGAAG AGAGAAAAA ACTTGGTGAA ATGCTTTCTG GACTAATTGA AGAAAAATGT  
AAACTACTTG AAAAATTTAG CCTTATTCOA AAAGAGTAG AAGGCTATGA AGTACAGTCA TCTTTAGAGG ATGCCAGCTT  
TGAGAAGGG GCANAGAAGC ACGAAGTTTG GAGGCAACCT GTGAAAAGCT GAACAGGTCC AATTCTGAAC TTGAOGATGA  
AATCCTCTGT CTAGAAATAG AGTTAAANGA AGAGAAATCT AAACACTCTC AACAAGATGA ACTGATGGCA GATATTTCAA  
AAAGGATACA ATCTCTAGAA GATGAGTCCA AANINCCCTC AAATCCACAA ATAAGCTTGA AGNCCAAAT CATTCTNGCA  
AGGTTTCTTC CCAATGG

SEQ ID NO:830: (Length of Sequence = 404 Nucleotides)

GGTTTGAGAG TAGAACAGGA AGTTGTGAGT AGAGCCTTGA AGGAAAGAGA ACAGCAGGTG CATGNTCCC CAGGCAGGAC  
TCAAGGTAGC CACTCAGGCA TCAGAAAGAG TCAGGCGGCC ATGATGGCTC ACACCTGTAA TCCAGCACT TTGGGAGTCT  
GAGTOGGGTG GNTCACCTGA GGTGAGGAGT TCGAGACCAG CCTGACCAAC AGGGTGAAAT CCTTCTCTA CTAACTACA  
AAAATTAGCC AGGTGTGGTG GCACATGCCT GGGACAAATT TGGGATCAGT GTTCTCCAGT CTGAACATAG TCTTCTGTAA  
CCTGGGAGAG AGTGGTCAGG TACTTCCAGC TTCAGGCAG CCAAAGCAT TGACAAAAG ACAGGTAGGA TGGGGGAGT  
AAGT

SEQ ID NO:831: (Length of Sequence = 330 Nucleotides)

AATTTACAG GTTGTGCTT CTGAAATCTG TACCTCTTA CTCATAACAT TTAATGTAGC ATTTCTCAAC CTGACCAATC  
TGCAGAAAAT ATATGTCATA TATTAATGT GTATACATGA ATATATGCAT TTCTCTGTGA AAAAGTCATA GTTTTNCATA  
GATGTCATGT AATCTTTTAA GAGATTCTCA AATAGGAACA TGATTCCACC CCAATAATGG TGAAAAATGA TCAATTTAGA  
TGAAAGGGAC CTCAACAAGC CTCTTGAGAT ATGAANCATA AAGAGNAAAT ATAAGCCGCA ACTTTTTGAC ATGACAGATT  
CATAATGGTT



SEQ ID NO:832: (Length of Sequence = 402 Nucleotides)

CTGTTTCTC CTTTGTGTTT CCTATTATN CTCCAGTGC TAACTTGATA TCINCTTG TGACACGTG TGINIGTGTG  
CAAATATATT TCTAGGAACA AGAGCAAACA TTCTAGTAAC TATCATTCTC TGATGTGGAG AACTTGGGCA GAGATCTGAG  
TTACAGCTTT GTGGATTTAT TCTCTCTGAT GAGAGATGCG CCTTAGAAT GTCATGGTCC TAACCCCGTC ATGGATACCA  
GGGGTGAATG GCAGGGTTCT TCTCTGCCC AGGAGGAAGG GTATGGGGAG CCGGTGCATC TTGACTGTCA GGTCACCTGT  
CTTACCACCT TTACAGCTAG GCTTCTGAG GTGCCAGGT CTCTGGGAA TTCAAAGTGT AGTTTAGAGG CAAGCTGGGT  
GA

SEQ ID NO:833: (Length of Sequence = 398 Nucleotides)

AGCCTTTTTC CAGAGATCAG ACCTCTTTAG ACATCTGAGA NTCATACAG GAGAAAAACC TTATGANTGC AGTGAATGTG  
GAAAAGGCTT CTCCAGAAC TCAGACCTCA GTATACATCA GAAACTCAT ACCGGAGAGA AACACTATGA ATGCAATGAA  
TGTGGGAAGG CTTTACAAG AAAATCAGCA CTCAGGATGC ATCAGAGAAT CCACACGGGA GAGAAACCTT ATGTATGCNC  
TGACTGTGGG AAGGCCTTCA TCCAGAAATC ACATTTCAAC ACACATCAGA GNNITCATA TGGAGAAAAG CCGTATGANT  
GCATGACTG TGGGGAATC CTTTCACTAN GGNAGTCACA ANCTTCCATG TGATCAAAG GNTTNACANC CGGGGAGG

SEQ ID NO:834: (Length of Sequence = 394 Nucleotides)

CTTTTGTGTT AGTCTGTAAA ATCATTGCCA GGTAAGTCT AGAGCTTAAT CCATATGNG TGCCATCTTT TGCTTTTCCA  
CACCTCTNAT CCTAGGTAAG TNAGAGCTAA JGAGTATTIN CTGAGCTTCT ATTATGGGCC CAGCATATGT NATAATTCTT  
TTTACACATA GGAATCTGAG GCTTAGAGAA GTTACTGAT TTACCTAATG GCACACCATA AGINCTGGGG CTAAGATTTA  
AACTCAGGTC TCTGACTTA ATTGAGATGG TCAGCTCGAT GGTAATCATA ATAATATTGT NGTGTGTGTT GTGTGTGTTA  
TNTATCAACA ATAGTAGTAG CTAAGTCCAT TTCATGAAC AGCTCATGG ATAGTCCAT NTGGATAATT CTGA

SEQ ID NO:835: (Length of Sequence = 422 Nucleotides)

GCTTCTGCC TCTATAGATT TGAATTTCT GGACCTTCA CATAACGGA ATCATGTAAT ATATATAATA AGCAAAGGT  
AACAAACACC AAGCTGGCAA TTTGGTTGAT GAATGANFAA ACAAATGTG CTGTATCCAT ACAGTGGAAT TATGGTGCC  
TACTACATGT GGATGGACCT TGGAAACATC ATGCTGAGTG AGAGAGAGCC TTGGTATTGT TTCATCTCCC CAGGAGATTC  
CAAGGTGCAG CCAAGGTGTA GACCCACTGA CAAGCAATGG ATATGGTTGG GTGCAGATGA AATAAGGCAG CCAGGGGCAG  
GAGGGATGTC TCATTGAAGA TGAATGTTT GTGGGATGCC TAGCAGGGGT GGGGGGATGA GGTATTGATA ACCAGCAACC  
CCAATCTTCA ACACAGGTG GA

SEQ ID NO:836: (Length of Sequence = 408 Nucleotides)

CTCAAAGAG TTGGCATCTC AGAAGGGAAG TGTAAAGTAC ACAATTGTCA TTGATGATGA AGAGGACATG GAAACAAATC  
AAGGGCAAGA GAAAAATTCC TCCAATTFTA TTGAACGAAG ACCTCTGAG ACTAAAAACA GAACCAATGA TGTGGATTTT  
TCCACTTCCA GTTTTCAAG AAGTAAGGTA AATGCAGGAA TGGGTAATAG TGGTATCACC ACAGAACCAG ACTCTGAAAT  
TCAGATTGCT AATGTTACAA CTTTAGAAC AGGTGTAAGC TCTGTGAATG ATGGCCAATT AGAAAATACT GACGGGCGAG  
ATATGAACTT AATGATTACA CATGTAAACA TCACTGCAGA NTACCCACTT GGGAGGATTG TCTCTAACCG GGACTGCAGT  
CCAAGTAA

SEQ ID NO:837: (Length of Sequence = 347 Nucleotides)

TGCTCTGTT GCCAGGCTG GAGTGAGTG GCAGATCTC AGCTCACTC AACCTTGCC TCTGGGTTC TAGCGATTTC  
CTGCCCTCAN TCTCTCAAGT AGCTGGGAT ACAGGCATGC ACCACACTC CTGGCTAATT TTGTATTFT NAGTAGAGGC  
GGGGTTTTC CATCTTGCTT AAGCTGGTCT GAACTCTG GCATCAATG ATCCATCCAC CTGGTCTTC CAAAGTGCTG

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GGATTACAGA CGTGAGCTAC TTCACCTGGC CTGTGTGGCT CTTTTTCAAA AAAAGTTTAC TNGACTCTTG CTTTATTGCA  
AGTCCCAGAA TGGATTTGAT TTAGGGA

SEQ ID NO:838: (Length of Sequence = 275 Nucleotides)

AATTGCCAAG GAAAATTTTA TTTTAGCTTT GCATTACAT ATTCTAAATA ATCCTTTTAC TTAATGCAAT CAGATTCTCTG  
TGACAAGCCA AATACTTGTT TTTTGTGTG TGTGTGTTT CCCTTCACCT TTCATTGTAT GCCCTCAGA AAAATCTGAG  
AAGTGGGCTT CCATTTTGA AAAACAGGAC TTCCTTAGTA CCATAGATAC GTAGATTGCA ATTTCCTTT TCCTGCAGCA  
TTACTGACCT TGTGAAATGA TGCCTATGGA TACGG

SEQ ID NO:839: (Length of Sequence = 387 Nucleotides)

TTTTGINTT GTGTGTAGAG ACTGGGTTTT NCCATGTTCC CAGGCTGGTC TTGAACCTCT CGGCTTAAGC NATCCTCCTG  
CCTTGACTTC ACAAAGTGCT TGANTTACAG GTGTGAGCTA CCAGCCTGG CCATGTTTTT TGTGTGAAG GATCTGTTTA  
GTTTTATATC TTTCTGTGGC TCATATCTAA TTTAGTTGAC AGTACCTGTG GGTCACTAGG TAGACATTGC TAGCAGACCT  
TTAGAAATGA AATACTAGAG CTGGGAAAA AGTTGATATT TGAGATAGAG ACTTGAAGAA CATTAGCAGA GAGTTGGTAG  
TTAAGGTCTG TGAGCTGGTG AGCAATTCAA AATAAAGCA GAAGAGAAGA GGAAGACAAG GGTCAAC

SEQ ID NO:840: (Length of Sequence = 367 Nucleotides)

GTACTAAAGC CATGCAGGAA GGAGGAAATA ATCAGTGAGC CACGGGCTGA ACTTGTGGAA AAGAAATGGA GGGCAAGGTC  
ACAAACCACT CCTTAAGTGC TTCTAATTTA ATGTAATCCT CACTGTTTGT CATTATTGCT TTATATGGCC ATGAAATCTG  
TTTTTCCCCA GINTCTAGT GTAATTGGA ATTAATTTCC CAGCTGCTTT ATTTTTCCTC TAGAAGAGTC GGGGACATTT  
TCAGGATTAG TAGAGGTGTT TCTACAACAC CTTCATGCCT TCGATAGTGT GTAAGAGTTC ACCAATTGAN TTACCTTATT  
CTGTTCAGAA GTAGTAACTA TGGAGTTTAA CCACTCTGGG ACATAAT

SEQ ID NO:841: (Length of Sequence = 346 Nucleotides)

TGGAAGGAA AAGCAAAGA TTGAAGAATA AAAACATTTT GTATTGGCA AAAGTTGTC TGTAGCAGTA AGTGTGAAC  
AAGTTTGCTA CATTTCCTT TTGGTTTAA CTGGTTGGG GCTTTTTTGT TTGGTTGGTT TTAAGGATT TAGGGGATTG  
GCAAGTCACT TTGTGAGATG TCAATGAACA GAAAACCTAA GAAAAAGGT AGCAAAAGIN CTGCTGGCCC CAGATGGATT  
TTNCTTAAG TAATTTCTTA ATCATTAGTT ACAGCTCTGT GTCAAAAGAT GTACATAGAA ATTTATGCTA GATTCTTTAA  
ATCTTCCTT ACTGTGTGCA GAAATG

SEQ ID NO:842: (Length of Sequence = 326 Nucleotides)

GTTCTTTGAA ACAACGAGA ACAAGACAC AACATACCAG ANTCTCTGG ACACATTCAA AGCAGTGTGT AGAGGGAAAT  
TTATAGCACT AAATGCCAC AAGAGAAAGC AGGAAAGATC TAAATTGAC ACCCTAACAT CGCAATTAAA AGANCTAGAG  
ANGCAAGAGC AAAGACATTC AAAAGCTAGC AGAAGGCAAG AAATAACTAA GATCAGAGCA GAACTGAAGG AGATAGAGAC  
ACAAAAAACC CTTCAAAAA TCANTGATTC CAGGAGCTGG TTTTIGAAAA GTTCAACAAA ACTGATAGNC CACTAGCAAG  
ACTAAT

SEQ ID NO:843: (Length of Sequence = 380 Nucleotides)

GGCCTTCAAA TTACAAAAAG CAATTACAT TATAGTAATA GTTATGTTT ATAGTACAGG AACAGAATG AGTTAACTA  
AATATCCAA ATCAGTACAA GTATATNCCT TTTTMTTTT TTGAGACAGG GTCTCACTCT GTCAACCCAG CTGTCTTGCT  
TTGTATCCA GGCTGCAGTG CAGTGGAGTG GTCACAACTC ACTGCAACTT CAGCTCCTG GGCTCAAGCA AGCCTCCAC

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CTCAGTAGCC TCCACTCCT GATTAGCTGG GACTACAGTG AATGTCGCG CATGCCCAGC CTAGTGGTAT TTTTAACAGA  
TAANTAAGAA TGGAGGTAGT GGCAGAGGTG GAGTGAGANG AGAGACANGT AAAATATAGG

SEQ ID NO:844: (Length of Sequence = 257 Nucleotides)

TTTCCCTCTC GTTGCCGAGG CTGGAGTGCA ATGGCGINAT CTTAGCTCAC CACAACCTCT GCCTCCGAGG TTCAAGCAAT  
TCTCTGCCT CANCCTCCCG AGTAGCTGGG ATTACAGGCA TGINCCACCA CGCCTGGCTA ATTTTNTATT TAAGTAGAGA  
TGGGGTTTCT CCATGTGTGT CAGTCTGGTC TCAAACCTCT GACCTCAGGT GATCTGGCCA CCTCGGCCTC CCAAAGTGCT  
GGGATTACAG GTGTGAG

SEQ ID NO:845: (Length of Sequence = 420 Nucleotides)

CTACACACAT CTTGCATTAC CTGGCAGTAA GCTTGGAGAG TAAGTTTTC AGATGCAGAT CAGAAGAGAT TAGGAAGAGC  
TTTCAGATC ACCGCAAGTA TTTGTATTTC ACTCTAAAT AAACAGAAAA CCCAGGAAGG GTTTTAGGCA GATAAATGGC  
ATTATTTAGT TTCTGTATTT AAGTCATCAT TTAGGTTACT GGGGGAGGCT GCCCTGAAGT GGATCAGAAG TAAAAGGCAG  
AGATACCAGC TAGGAAGCTG TTGCAGTGAG CCAGGTGAGA AGAGAGGGCC ACCTGGACCA GGTAGAAGCA GTACAGGTGA  
AAAAANTCAG ACACITCCAA ATCTTCTCA AGATTINATA CATTATTTGG CTGGGCAAGG TGGGCTCACA CCCGTAAATC  
CCAGCACTTT TGGGGAGGCC

SEQ ID NO:846: (Length of Sequence = 215 Nucleotides)

GNCTGGGTGA CAGAGTGACC CTGTCTCAA AAAACAGTGA TTGTTGTAA GGAAATTATT AAAACCTTGG TTCAATATCC  
AATATCTTAA CTTTAAATTT TCAAATACTT CAAACTAGT AAGTATTACT ATGTCTAAAG CACAGTGCGT TCCAACGGAN  
TATGTGAGCC ACATATATAA TTITAACTAG GCCAGTAGTC ACATTAATAA GAAAA

SEQ ID NO:847: (Length of Sequence = 266 Nucleotides)

ACACGAAGAA TCTCTTCAT CGCAAACAG CTTTCAGAGA TAGATGCTTT GTTCCAATC GAGCATGCTA TTCCAGTGTA  
CTGNACATAC TGTTACCTC GTGTTAGGCA CCTTTATGAA GAGATNAAGN CACTGGCATT TCAGTGGGAT TTTAAGCATT  
TTTAATAGCT TCATGTACAG CATGCTGCTT GGTGNACAAT CATTAAATCT NOGATATTTT GTAGCTTGA NTGTAACCGN  
TTTAAGAAAG GTTCTCAAAT GGTGTG

SEQ ID NO:848: (Length of Sequence = 275 Nucleotides)

CNCTGGGTC CCCTTTTAAA AATTACTTTT CAGCCGGGCA TGGTGGCTCA NGCCTTGTA TTCCAGCACT TTGGGAGGCT  
GAGGTTGGAG GNTCACTGA GGNCGGGAGA TTGAGATCAG CCTGACCAAC ATGAAGAAAC CCGTCTCTA CTAAAAATAC  
AAAAATTAGC CGGGCGTNGT GGCACATGNC TGTAATCCAG CTACTCGGGT GGCTGAAACA GAAACCACCA ACGNCTGACC  
TCAGGGAGAT GTCTAAGAGC TTCTGGCATG CCTCA

SEQ ID NO:849: (Length of Sequence = 318 Nucleotides)

GGAATTTTNC TAGTGAGGAG TGGAGGAAGG GGGCTGGTG GAGGAGTAGC AGCCTTTNCA AAGGCCCTGA GGCAGGAATA  
CCTGGGAAGT GGGGGCGTGC TTGNTAAGA TGAGCTAAA GAGGAAGGCG AGGCTTTTACT TAGGAGGAAT GGGAGGCCAC  
TGAGTGTTAA AATTAAAAGC AGTNGGGGCT GGGCACAGTG GCTTACACCT ATAATCCAG TACTTTGGGA GGCCAAGGTG  
GNTGNTCAC CTGAGGTCAA NGAGTTTINAG ACCAGCCTNG CCCAACATTG GGCTCTACTA AAAGTACAAA AATTAGCT

SEQ ID NO:850: (Length of Sequence = 320 Nucleotides)

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ATGTCGCGCA ACTCAGGAGC AGGGCAGGAA TCAAACITTT TGGAGTTGCT ATCAAGTNC TGAITTTNCA ATCCCAACCG  
 TCCGAGAAC ACTAGATGTG TGNATGTNIG CITGTGTGTG CATTGTAGT AAAGAGGGG TTAGAAGTG GAAGGCAGAG  
 NCAGGAGTNG GCATCTACCA NGGCATACAT NAAAGACCT TACACCAACA CTGCCCTTCC CAGNAATGTG AGTGTAACT  
 GGTTCCTAA AACCTGGGC TGCAGTCCAG ATAGTCATGG TTAGANCAGA TGGTIGAGGA AAGGTTCAAG GCAGTAGGAT

SEQ ID NO:851: (Length of Sequence = 170 Nucleotides)

CATCCAAGAT ACCAAGATAT ATGAGGGAAC ATTNNNTTA ATAAAAACA CAAAACCACA AATCCAAGAG GCTCAGNTAA  
 CCCCAGTAA AATATATACT AAAATACAAG NAAAGGGAA AAAATGCATG NACACACACA TATAGGCATA TCATATTCAA  
 ACAGTTGTAA

SEQ ID NO:852: (Length of Sequence = 256 Nucleotides)

CAAAGTACAC ANGIGTATTT ATTACATTT GCAAGCACTC TGTCTACAT TTCAAAAACG CCACNTCAA GCTGTGGCA  
 CATTATGTA CAAACAGAT TAATTGTAAT GCTGTCTACA AAGCACTCTG TGAAAATACA AACTCTAATA CCAGAAATAA  
 AGCCAAAG TGTCACATC ATTACATAAG TNGAAAAGTC AGTTTNGAA ATTATCACA ACTGTATGN CACGGAAGT  
 AAATACTATA ATATAG

SEQ ID NO:853: (Length of Sequence = 281 Nucleotides)

GTATGNGIT TCCTCTCT TGTCTCTCT AGGATATTIN ATCCTTGACT TTAGGGAGTT TGATTATNAA ATGCCITGAG  
 GIGATATTT TNGGGTTAAA TCGGCTTGN GTCTCTAAC ATTCTTATAC TTAGATATG ATATCTCCTT CTAGGTTTGG  
 GAAGATCTCC GTGCTATTC TTTTGAATAA GCCTCTACC CCATCTCTT CTCTATCTCC TCTTACAGC AAATAAGTT  
 TTAGANTGTC CATTTNAGG CTATTTCTA GACCCTGAG G

SEQ ID NO:854: (Length of Sequence = 255 Nucleotides)

TCTGTCCAG ATTATTACCA GCTAAACCAN GTAATGGAGG TCTATGCTG ATGAAGAACA CCTGTAAAAG CTGGAAAATG  
 TGGCTGTCT CTCAAATGGG CAGATACCAG CACAANGATA CAAGGATGT AAAGACTCAG AATCATGTTA CTTCAGAAG  
 AACTANATA AGNTCCAACA ATGAACACAA NATAATANAA CTNAAGGANA TTTGGANAAC ANTGCATAAA CAAAACAAGT  
 TTAATGAATG ATTAG

SEQ ID NO:855: (Length of Sequence = 333 Nucleotides)

ATAGCTGIGG TGTAACCCA CCAGAGTGG CATGCTTNC TCTNAGGATA GACGTTGGGT AGTGGGATTG GGGAGAGGCA  
 GGACAGAGGC TCCGTTGTG TCTCTCTAAT TCATTGTTT TAAAAAGGA TTGGGCTTA CAAGTTTCAA ATACTAAGAT  
 TINATAAAGT CACATGGATT TTAATAAATC ACTCTATTGT ATGTTTGAAA CATTCCATAA TTAAATAAA AGGATTGGTA  
 TTATATATGT NCTTGAGTTG CTATAATGTT TTACGGTTT CCTTGTCTC ACTTTTGAAT TNINCGAGGA TCTCTGGGG  
 GAAGNTCAG TCG

SEQ ID NO:856: (Length of Sequence = 230 Nucleotides)

TTNAGACAA AGCTTGCTC TGTACCCAG GCTGGAGTGC AGTGGGCAA TCTGACTCA CTGCAACCTC CACCTNCTGG  
 GTTCAAGCNA TTCTCTGCC TCANCCACC AAGTAGCTGG GACTACAGC ACGTGGCACC ATGCGTACT AATTTTTTGT  
 ATTTTTTTTA GTAAAGACGG GGTTCACCG TGTAGCCAG GATGGTCTCG ATCTCTGAC CTCATGATCT

SEQ ID NO:857: (Length of Sequence = 334 Nucleotides)

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AAAAACAATT AGTAAAAATT ATGCATTAAG GAATTATTTA CTAGACTTTC TGAAGTAAA AAATAAGTCA GCTGGTTTTT  
 CCTTTGANTT CCTATATATT AAGGCAGAA TCTCTATACT GTCCACCAAA ATCATAGTTA CAACGTGTTA CTTGAAATGA  
 TTTATATACT GCATTGACCT GGCATGTTAA TATTTCCTA TAAATATCAC CACTTATCCC CATGCCCTAA AGCAGTTTTT  
 TTAAACCCAT TCTTCTTGG AGAATAATTA TAATACCTTA AATACAGAAC TTGGGGTTC TGATCTTGCC ATAGCCATGT  
 AGCAGAGCCA CTGA

SEQ ID NO:858: (Length of Sequence = 301 Nucleotides)

GGAGAAACGC CTAATGTAGA TGATGGGTG ATGGGTGCAG CAAACCACCA TGGCAGTGT ATACCTATGT AACAAACCTG  
 CACGCTCTGC ACATGTATCC CAGAACTTAA AGCATAATAA TAAAAAANTA AGAAATGGA AATTGATTTT AAAAATTTTT  
 ACAATGTGCA TCAAAGACA ACATTAAGAA AATTAACAGA NTGGAAGAAA ACATTGCAA ATAATTTATC TGATGAGGGT  
 TTAATATCCA GAAATATAA AGANCTCCTA CANTCAACA GCAANAAAAG ACAACCCNAC T

SEQ ID NO:859: (Length of Sequence = 332 Nucleotides)

TGTCTCACC CATAGAGCTA TCAGAGGGTG CTGCNATTG GCAGACCCCTT TACATTCCC TTAATAAAT CACTTCCCTG  
 CCAAGATCTC TGTCAGGTT TGAGAAGTCA GAGCATTAG TTATTNNCAA TAAATGGTAT GTACATGANC ATCAGCAAGC  
 TCCAAGAAAT GACTCGAGGG CCTTTNACTA CTCAGAGAAT AAAGCAAAAA TGCCAGGTTT TCAGTCTTG TCCTTTGTGC  
 CAGGGATTG GACGTGTTTT TTGTTAAGIN CCAGCGTTGA GCTATGTTCC AGAAGATGGA GCCTCCAGA AATTAATTGT  
 AGTGCCTGAA GG

SEQ ID NO:860: (Length of Sequence = 233 Nucleotides)

AAACENTATG TGATTTTACG ATTACAACAG TAATTCAGAA ATATCTCANN TGTTACATTG ATGTCATCAN TATTACAAAA  
 AAGGAAAAA AAGTGACAGG CAACAGTGAA GAGCACCAGA GACCCAGCGC ACACCTAAAG TAGACCATGC TTCTTCCCTT  
 CCACTGCCAG GTTATCGTCC CGGAAGCCC CCCACCCCT CGCTTCTC CTCGCTTTC CCTAAAAAA NNG

SEQ ID NO:861: (Length of Sequence = 327 Nucleotides)

GGCAGGTGT CAGCGCCGT TTCACCGCCA CGTCGGGAC ATGGTGATTT CAGAAAGTAT GGATATACTC TTCAGAATAA  
 GAGGAGCCT TGATTTGGCT TTTCAGCTAG CTACTCCTAA TGAAATTTN CTCAGAAGG CACTGAAACA TGTTTGAGT  
 GACCTGTCAA CTAAGCTGTC TTCAAACGCC CTGTGTTCA GAATTTNCCA CAGTTCAGTG TATATATGGC CTAGCAGTGA  
 CATAACACC ATTCTGGAG AACTGACTGA TGCTCTGCT TGTAAGAAC TACTGCGCTT TATTCAATTT GAGCCAGAAG  
 AAGATAT

SEQ ID NO:862: (Length of Sequence = 378 Nucleotides)

AATCAGTCC ACATTGTTGT CCTGGATGCT GAGTTGCTG AGGGTTTCCA AGACCAGTCT CTGCGGGGAA AGGACGGCAT  
 TGGGGCCAG GGTGAAAAG GGTCTCTGG CTTCANCTGA AGGGCAAAC GGCAGTGTA GGAGTCCGTC CAGGACAGGC  
 AGGCAAAATC TCTCGGGTA TGGAGATAGG TCCAAGTCC CCGAGATGTT GCGAGTGTA ACCAAGGTGT TTTCCCGGAG  
 CATCTCCAAG CAGTCCACC ACCACTCCAC TTTTTCAG CTCACCCCTT GGTCTGTT CTNCTCCTT TTCATAAGTT  
 AGTGGTGCCT GCTTCCGGT TCTGGGTGCT TTGTGGTGC AGCAAGGATC AAGCTTTG

SEQ ID NO:863: (Length of Sequence = 374 Nucleotides)

TCAAATTAAT GGTTTTATT CCTCTGTAA CACTAGCAGA GGAGTCCAAA GCAGACTGAT ATCCATGGAT ATAGTTTAAA  
 TGTAACAAAG AAAGAGTTGA ACTATGTACA TTGAAAAAG GAAAGACATT TTNCATACC AACCTTTCCC TAGTTCGCAG  
 TTCTGAATA GTAGAAACAA AACACATTTT TAAATCTTC TATCAATTA ATTAGGAGC AATTAACACA ACTTTTAAA

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TAAACCACTG AAGTNGTCTT TAAGGACAAA ACTTAAATTT TAAATGGGT GTTACCATAT TTATGAGTG GACTGACTCC  
AAGGTGCCT TGCTCCAAGN NTGGGCATCG TGACATTGCC GTGATGCCA GAGG

SEQ ID NO:864: (Length of Sequence = 223 Nucleotides)

AAGGGGATAG AGCAGACACT CCGCAGGTNT CTGAGATTA TCATCCGCTG AGGGTAGAGC TGAGGGTGGA AGGGGAGTNA  
GCAGACACTC GGAAGGTGTC TTNAGGCTCA GGGAGTTATC AATTATAGAA TGTGTGTGAG TTGGAGGAGG TGGCTGGTGG  
CCCATCTGT TTTTAAAGT TTCANCTGTG AGGTAGGGCC AGTAGGGCAA TCCTGAAGAA TGG

SEQ ID NO:865: (Length of Sequence = 228 Nucleotides)

GAACCGGGA GGCAGAGGTT GCAGTGAGCA GAGATCACAC CACTGCACTC CAGCCTGGGC AACANAGCAA GACTCCGTCT  
CANAATTTTN CCAAAATCTG ACGGAAAGAA AAGAAACAAA TGGTTCAGAT GGGACGGAGG GTGGGGGAGG GGGGAGGGT  
GAGTAGGAAC CAGGAGGGCT GCTGGGGTG GGGGAATAAN TTAAAAAAG GAACGAGTTA ACAACAGC

SEQ ID NO:866: (Length of Sequence = 328 Nucleotides)

GCACCAGTTC AGAGAGGCCC CAGGCCACTG AGCCCGGGAG GAGACCCAGC CGGCCAGCCA GATGTGTGCC TGATGCCAC  
AGACTTCAAG CAGTTTACAA ACGAACTCA CTGTTAAAG CTGTAAATC TCATTAAAC AGTAGACGAG TGCTTTAGAT  
TCTCTGAATA TCAATAATA TATACAGATA GACACTGAGA CATGACAGTC TAATCTAAG CATCTTTACA GATGCATTIN  
CTTGAAAAGT TAGTCTCTT TTTAACTCTG AATCAGTGAT AAAATGTGA ATTTGCAAAA GAGTACAGTT TTAAGCAAGA  
NTAGAGTG

SEQ ID NO:867: (Length of Sequence = 361 Nucleotides)

GTTCATGCG ATGTAATAAT TATGTGAAAT TCAATTTTA GTGTCCCGAG TTCTACTGGA ACGCAGCCCC TATGTGGTTC  
ATGINTTGCC TCCAGCTCCT TTCACACTGC AGCAAAGCAG GGAGTGTAAC GTACACCCCA CGGCCAGGG GCTTAAATA  
TTTCCATCA GACCCCTAGA GAAAAATATG CCGACCTCG ATGTGACTGA GGGTGGGAC TTGGGTGAAT GCGGCCAGG  
AGTGACATCA AGGGTTTGAA GCAGACCTC TGTCAGGAG GGAGCGGAG CAGAGCAGG ACAGTAGTNA GGAGGCCATC  
TGTGGTGACT TAGGCAAGGT GAGGAGGATG TAGGAGGCAA G

SEQ ID NO:868: (Length of Sequence = 364 Nucleotides)

AAAGCAGCCT TCAGGCTACT CTCTCTGNN TCTTGCTCT GGGGAAGAAC ACTCAAGCAG CTTTAGAAAA AGTCCACGTG  
GCAAGGAATT GTGGTCTTT GCCAACAGCC ATGTGAGTNA TCCATCTTAA GAGTGGNTCC TCCAGCCCCA GTAAAGTGTT  
CAATGACAG CAGCCCTGGC TAACATATTG ACTGCAACT CATCAGGGAA CTTGAGCCAG AAAAATCAG CTAACCTGCT  
CCTAAACTTC TGACCCACAG AAATGGTGAG ATAATGAATG CTTGTTTTAA GCTGCTAAGN TCTGGAATAA TTTGTTATTC  
AGCAGTAGNA TAACTAATAC AANGCCACC AAGNATCAIT TCCC

SEQ ID NO:869: (Length of Sequence = 383 Nucleotides)

AGCGACAGAC AAGTGAGCAT CACTACCAGA GCTCTGCCCT CTGTGAGATC AGTAGGGACT TTAGATTGTC ATAGGACCAT  
GAACCTGTG CATGCGAGGG ATGTGGGTG CACACTCCT ATGAGAATCT AATGCCGTGAT GATCTGAGGT GGAACAGTTT  
CATCTGAAG CCATCCCTGT GCCCTACCT GTGGAAAAAT TGTATTCCAT GAAACAGTT TTTGGGGCCA AAAAGATTGA  
GGACCGCTGC TCTATAAGAA ACTATTACTG AAATAAGGTA TAAAGTCTTT ATCTTACTTA TATTTATATC CTCTATGGTG  
TCCACACACA AGGTGCTTTT TACACTAAG TTGTAAACT AAAATATTNC TTTAACTTT AAT

SEQ ID NO:870: (Length of Sequence = 409 Nucleotides)

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CAGCTTTGCA AATCAAATAG AATTCATTTT GCCTCCNCTN ATCTTACAAC TATTCTCTGG AGTAGGCAGG CTGGTTGAAC  
 TTCAAGAGAA GAGGCGTTCC TGAGAGCCTC CTGGTGAGC TTGCACACCT GGGGGCCAGA TGINCTTTGC CCTCCTTGCA  
 AAGCCTCTCT AGTCTGGTGC CCAGAGAATA CAGCTTCAGC AGCAGCTCAC TTGCTTTIN AGTTTAGATG AGAAAAACA  
 GCAAAATAGT CCATCAAGGA CAAATTCTTG CCAATGGATT TNCCTTTGCA AGGANGTICA CCTTTGNCC TCAAGCATCA  
 TCTTTAAGTT GTGAATGCCT GATGGGAGGT CCAGTTGCV CTGTGGGAGG AGCTNGGGT GGNITCCAAA ACCACCTGGG  
 GACCAGTGG

SEQ ID NO:871: (Length of Sequence = 290 Nucleotides)

TCTTTGCATT GATAGATTAG TTATTTATGC CAGINGTCTC TGCTCGGCTT GTTTTGGTTT TNATTGCATT TGTTTGCTAG  
 AGATTGTTTT TAGTTTTNCA ATTTCTTTCT CTGTACACCT GCGCTCCCC CACCCACCA CTGGGTTACT ACCTCCTTTT  
 TGGCACTACA TGATGCCTTA AGCCAGGNT TGCCTAAGCT TTCATAACAG ATCCACGAC TGCTCATCC CAGTGGTGA  
 GGINCTAAAT GGGATAACCT GATAGTGTGG GAAGGCTGGC TGGGGTTGT

SEQ ID NO:872: (Length of Sequence = 313 Nucleotides)

AAAACAAAC AAATTTAAAA GCACTCAAAA ATAACCTCAA AAAGAGACTA GTGAGTGTCC CTTAAGGAAA GCGCTTCTG  
 CAGATTCCCA CAGAACTCGG CCCAGGCACT TAACCTCCAT CTCAGCTCTG GTACAGCTCA CTGCGTACAG TGTGTACAA  
 ACTCTTATGC CTGNCCTGCT GATAAATTCT ATTTATCTCT GAACCTCAAT TTATTCAAAT CTAGTTATGA TATATCATAG  
 TGCTTGTAAT TGTGTAAAA TATAGANGTA ACATACAGCA TGTGTCTACA CGNTTAATAA ACTGGTGTCTA ATT

SEQ ID NO:873: (Length of Sequence = 300 Nucleotides)

TAGTAAACAA GTATTACTTC AACTGATACA ATGGCTACAT GACATCAAAG TACTATAAAT NATCAAACT ATCGTACAGA  
 AAAATTACAA ATTOGTTGCA AAATACATTA TACTGCTACC ATTAAGAAAA AAGTGCTTTT NGTTTTCTT TCTTTCTTTT  
 TTTTTTTTTT TTTTGCCAGA AAAGTATTCT TNCATATAG AAAATCCTAC ATGTTACCTT GCATGTGGCT AGENTATATC  
 ATAACGGAGT TTGTACTGAG TCCTTCTGAT TTGCTGGATG AAGGGCTGAA AAATATATTA

SEQ ID NO:874: (Length of Sequence = 364 Nucleotides)

GAGTCATTGA TGCTGAGAGA TTGTAAGAA TATACTGACA GCATCCTTGT AGCTGCATCA CAGTAAATCG GACTTCTGAA  
 TCAAGCAGCC CAGCCTAGCA GCTGATAAGA GTGAATGTAG GTGAGAAGCA TTACCTTATT CCTGTACAA GAGAAGTGT  
 TTGTGATAAG TGAACTAGG AATGTAGAAG AAGAAATATC CTATGGCTAT TATAAAGAN GAAGGACTTG CCTGANTGAC  
 TTGGTGGTGC ACCAGAAAAT AACTTTTACA AGAATGCTTT CTGTTAAGCT GCTGCATTGT TCCTGGAGGA AATGTTATTT  
 CTAATGCATG TTATTTCTTC AAAAGATAGG ATAACAAAGA ATTG

SEQ ID NO:875: (Length of Sequence = 341 Nucleotides)

ATCAGTCCAA TGCAGATTAG TATCACTTTG CTCATAAAAG AGAGTATAAA GGTCTCTGAA GTTTTTGAAA GGAGCGGCTN  
 AGCTGACTGT TAAGGAAGCT ATCTTTTGTG TACAAGAAAT TTACTTTTT CCCTTCTAAA TTTCACAAAC AGAATATTAT  
 TAGAGACAAC AGAATACATT TACAAAAATG GCATCAGAAA TAATTGANTA CATTGTGTAC AATATCTINCT ATTAATGAAA  
 TAAATGTATA TTNATATGA TATTGGTCT TTATGGGAAA ANTAATATAA TTNCCAATAT TCTAAGGNTG ANCAAAGNG  
 GTTTACAAAT AGCATGCAAG G

SEQ ID NO:876: (Length of Sequence = 327 Nucleotides)

GTTCANCTT GTGGGTCAAC TTCTAATATT TGATGGTGGC TACACTGTGA CAAGAAAGGT TTTTINAGCTT GTTGGGGTCA  
 GTGGATGGGC ACAAGGCAC CCAGTGGTGG TGCCCGNCC AGGGAGGAGA ATACATGTGA GAATATAAGG TTGGAAGTC  
 AAATTATAGT AGAATGTGTA TCTAAATAGT GACTGCTTTC CATTTCATT CAAACGTGAC AAGTATATCT CTAAGAGCAG

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CCAGATTTCC ATGIGTGCAG TATTATAAGT TATCATGGAA CTATATGGTG GACGAGACC TTGAGAACAA CCTAAATTAT  
GGGGAGA

SEQ ID NO:877: (Length of Sequence = 404 Nucleotides)

ATTGGGCTCC TGAATGTTGC AGAAACTGG TTTGTACAC TGGGAAGGA GAGAGTGAAG ACCCTCCAGT TGGTTCCTCA  
GTCAGCTCCG TTCTTGGTGT CGCTTCTTG CAATTTTTT CCTCCCCTGG CCCTTCTGT GAGGGTTAAA AGGGCCATCT  
CCAAGCCAGG TGGAGCCCCA ATCCCATIGA CCAAGAGGGC AAGGTATGGG GTCACCTTCT CATGGAAGCC CTCTTCTAA  
AGGAGCCCAA AGGGGACACC TGCAGAGGGC GGGCTGTGAT CTGTGTGTGA ACTTCAACAA AATCTCAGGT TAGTATTTCT  
CCAATTTAG TTGAACCAG ATGTGGTATA CACTACAAA TGCAGATTCT GGTGCCCTC TCCAAGAGTC GGCTCAGTT  
AAAA

SEQ ID NO:878: (Length of Sequence = 340 Nucleotides)

TGTACCGCTG TGCTGTGGC ACGAACACCT TCAGGGACTG GAGCTGCTTT TATCCTTGA AGAGTATTCC CAGTTGAAGC  
TGAAAAGTAC AGCAGAGTGC AGCTTTGGTT CATATTAGT CATCTCAGGA GAACCTCAGA AGAGCTTGAG TAGGCCAAAT  
NTGAAGTTA AGTTTTCCAA TAATGTGACT TCTTAAAGT TTTATTAAAG GGGAGGGCA AATATTGGCA ATTAGTTGGC  
AGTGGCCTGT TACGGTTGGG ATTGGTGGG TGGGTTTAGG TAATTGTTA GTTATGNTT NGCAGATAAA CTCATGCCAG  
AGAACTTTAA AGTCTTAGGA

SEQ ID NO:879: (Length of Sequence = 372 Nucleotides)

GAAAAGATAA TGAAGGAATA ATGCAAAGCT GAAGGCTGTG CCAGATGTAA GAAGTGATTA TGAAGGATAA AAGAAAAGGG  
CTTTCCAAGC AGGAAGAGG CATCAGAGAG AAAACCAATT GTGAGCCAG TATCTGTCA CAGGGACATT TGTCTTNTC  
CTTTAATGCC CAGTAAGGGT CTCTCAGGT TCCATTAAAC ATGCAGAATC ACAAGACCCC CCCAAAGTTA CCATGGTGCC  
AACCGACTCA AAACAATACA GACAGAAGC TCAGCTCATC AGGAAGGCTG CAGCAGGCAT ATGGGAACCA TCTTGCTCCA  
CAAAGGACAG CTNAGATGGC AAAGATCCCT ACAAGGGTCC ATATCCACGG GG

SEQ ID NO:880: (Length of Sequence = 405 Nucleotides)

GAGCTAGGCA CCAGGCATTC TGTGAGGCC CAGGAGTTA AGAAATGAAT TAAATATTCT CCCTGCCCT CTTTGAAGTG  
ACTCTAACGA GGAGACTTAA GANTTATTTT GTAATCTTA GTTATATTIN CTGAATTCA GAGCTTAAAT ATTATACTTC  
AACATGAGTC ACACCTTTAT TTATATGTTG GTTGTCTCA GCTGTGTGT GGGTTGGTGG AAGGAGACCA CACATACATA  
CACACAGAGT ACATACATGC TGTGTATGTT ACACACATAC TCACACCCCA CAAAGTGAAG CTCCATGCTC ATTTTGTTTA  
ACAAAGACTA GAGAGGCCTT GCAGACAACA GCTACCTGGA GCAGGAACAA GTGAAGCATG TTTCTGAACC ATTTCTCAAG  
TCACA

SEQ ID NO:881: (Length of Sequence = 336 Nucleotides)

GTCTTINCAG TCAAAAGTCC TTGAAGCTGG GACCCTTGA AAGTCTGTCA GTTACATGTT GTTGGTAGTG GCTTGTTTTG  
ACCGTTTCAA AAAAGGAAGA AAAAACCCT TAAATCATTT TTCTTTCTC TTTTCTACTG CAAAGGCCGA CGAGATTGAA  
ATGATCATGA CGGACCTTGA AAGGGCAAAC CAGAGGCAG AGGTGGCTCA GAGAGAGCG GAGACCTTAA GGGAACAGCT  
CTCATCGGCC AATCACTCCC TCCAGCTGGC CTCACAGATC CAGAAAGGCA CCAGACGTGG AGCAGGCCAT AGAGGTGCTG  
ACCGCTCCA GCCTAG

SEQ ID NO:882: (Length of Sequence = 369 Nucleotides)



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TGCCATTAGC AACACTGTTT AGATGAGATA ATTAAGAAAA AAAGCCAATT GAATGATTGA GTGAATGANT GATTGAAAAT  
 CTTTCCGAAG TTATAATAAT AATTGTGATT ATTGGGGTCA AAGCAAAACC ATTTTAGTCT AAAAGATTGT AACTATATACC  
 AACTTTTACC CAATTTGGAA TGAAAAATTA CATTCCAAA CCATGTAGAA ATTCTGANCT CTTTGAAATA TTTCTTTTG  
 TGGGAAAGAA CCAGAAATTC TTGTTCATAT GTACCCATTT ATCTTATTIN AGTTACCCAA CCAAAGATA AAATAATATT  
 CTCAAAGAGA TAATTGACTG GAGGAGTTTA AAGTGTATTAT AAATATTAG

SEQ ID NO:883: (Length of Sequence = 369 Nucleotides)

CTGCCATAAG AATATCAGCC TGGGGGCAGT CCAGACGCAG CCCTTTGTCA TCCTTTCTGT TTGCCTAGTC TCAGCAGACT  
 GTGATCACAA GGCAATTGCT GTGGGATTTT NCCTTCCCT TTCTTGATCT CTCTTGIGGT TCTAGGTTGT TTGGTTGTTT  
 ATTGTTATGG TGGCTTTTNA TTTTAACGCC CCTTGAGCCC CATGATGGCT GGTGTCAACC TGTTCTTTA CACTGTTGGG  
 CCAGGTGCTG CTGTCTCTC TTAGGGCATC ATCAATTGCA AATATTTCTT TTTGCTCCCT TTATGAAGAT GTTCTTATAC  
 CCTTGCTTTT CCATATTTT TTTGGGCCAA GCAATGCCAT CTNCTTTTA

SEQ ID NO:884: (Length of Sequence = 327 Nucleotides)

AGTTCATCTT TTTCCAGAGG GGTCTGGGTG CCTTTAAAGG GGTGCAGGCC GAAGAAGATG GTGGCTTGGG GAAACTGGAG  
 CTGAACTTGG ATTACAGAACT CTGAGGCACC GGGATGGGA TGGGAATAGG GACTGGCACA GGCAAGGGGA CGATTACAGG  
 ATAGGCGACC AAGAGGGTGG CTGGTGGGAC CAGGGGGGAC AAGGGGGAGC TAAAGGCTG TGGGGGCACA GGGGCATAGC  
 CAGGAGGAGG CTGACAGGT GGGGGCCCGA GAGTGCCCTG GGAGGGAAAC AAATCTTGA GCACAGCTTC AAATGGCAAA  
 GTGGGCT

SEQ ID NO:885: (Length of Sequence = 380 Nucleotides)

CCAAAAGCTT ATCCACCATG ATCAAGTGGG CTTCATCCCT GGGATGCAAG GCTGGTTCAA TATATGCAA TCAATAAATG  
 TAATCCAGCA TATAAACAGA ACCAAAGACA AAAACCACAT GATTATCTCA CTAGATGCAG AAAAGGCCCT TGACAAAATT  
 CAACAACCTC TCATGCTAAA AACTCTCAAT AAATTAGGTA TTGATGGGAT GTATCTCAA ATAATAAGAN CTATCTATGA  
 CAAACCCACA GCCAATATCA TACTGAATGG GCAAAACTG GAAGCATTCC CTTTGAAAAC TGGCACAAGG ACAGGGATGC  
 CCTCTCTAC CACTCTATT CAACATAGGT GTTTGGGAAG TTCGGGCCA GGGGCAATTT

SEQ ID NO:886: (Length of Sequence = 400 Nucleotides)

GGGATGACTT TAAACGAGAG CTGGACAGTA TTAATCCAGA AGTCTTCTT GGGTGGAAAG GAATGAGTGT TTCANACTTA  
 GCTGACAAGC TCTCTACTGA TGATCTGAAC TCCTCATGT CTCATGCACA TCGTCGTATT GATCAGCTGA ACAGAGAGCT  
 GGCAGAACAG AAGGCCACCG AAAAGCAGCA CATCACTTA GCCTTGGAGA AACAAAAGCT GGAAGAAAAG CGGGCATTGT  
 ACTCTGCACT AGCAAAAGCA TTAGAATATC ACAGAAGTGA AATACAGGCT GAACAGGACA GAAAGATAGA AGAAGTCAGA  
 GATGCCATGG GAAAATGGAA ATGAGGAACC CAGCTTCGCC GACAGTAGGC TTGCCACAC TGATTCACTT TCGGAGATGT

SEQ ID NO:887: (Length of Sequence = 363 Nucleotides)

TAAAATAAAT GCTCTGGATG GGAGAAATGT GGAAGTTACT TTGGAAGTGG ATAATAAGTA AAGGCTGAAA GAGTACTGAT  
 ATACATGCTA AATAAAACCA ATATTTCCCT GAATGANCTA TTCAAAGCAA TTCTGGTGGG TGTTAGACAG GACATAGAGA  
 CCTGGAGAAG AAGCTCCAT TTTATAAAG AACACAAACA ATCATGTATA GAATGTTGGT AGAAATATGA ATGGTGAAGG  
 TCAATGTAAT GAAGTCTTAG ATGGGAATAA GANAGGTTAT TAGACAAGGG AGAAAAGGTA ATCTTGTTA TAAAGTGGCA  
 AAGGAAGTGT GCCTGAATTG TATTCATGTA CTAGTCTTT CCT

SEQ ID NO:888: (Length of Sequence = 318 Nucleotides)

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ATCTTGCATG ATTAATACTA TTGGCCCTG CCGTTTATCC TCAGCTGGTT GTACAATTCT TGAATGCTTT CTCTTCCCC  
 TGAGGATGCT ATAGATATTG TCCTACTGTA ATCTGAAATN AGTCGTTTTG GAGAAGTTTC TCCATCCAGA TACCTATAGA  
 GTCGTCTTT TTTTTTTTTT TTTTTTTTTT ATATGCCAAC NCTCGCTGTA TTATTCAGGC TGATCTGAAT CTCCTGGNCT  
 TTAGTGTGT GACAGCTTTG GCCTCTTAAA ACTGCAGNT TACAGGCATG AGCCACAGTG CCTGGCCATC AAGTAGCA

SEQ ID NO:889: (Length of Sequence = 349 Nucleotides)

ACAGAAATCT ACGTAGACTT CINCCAAATG CCACATGAGA GCACTGGCAG AATACAGAGA GACCGGGAC CACAGCAAGG  
 AACTGTAAAG GCCAACAGTC CTCAGGCATG CAGGCCCTGG CCAACAGCAC AACGCAGAGT CGCTTCTTCT CAGTCCAGCA  
 ATTAAAATGA CCATGGCAGC CAGGGTTTCA TTAGGTTACT TTCAAAAACC ACCTTTGCTG GAAAAAATGT TTGGTAGTTT  
 AATCTGCATA TACGGACAGT CATGCACCAC ATAATGATGT TTAGGTCAAC GATGGACCAC ATATTCAATG GGTAGTCCCC  
 TAAGGTTTAT AACAGCATA TTTTTTACT

SEQ ID NO:890: (Length of Sequence = 341 Nucleotides)

GGTGTAGGG TTGTTAGGTA GGGCTAGTAG GTAGGTTAG TAGGTAGGC TAGTAGGTAG GGCTAGTAGG TAGGGTTGCT  
 AGGTAGGGTT CGTAGGTAGG GTTAGTAGGT AGGGTTGCTA GTTAGGGTTA GTAGGTAGGG TTGTTAGGTA GGGCTAGTAG  
 GTAGGCTAG TAGGTAGGC TAGTAGGTAG GGTAGTAGT TAGGCTAGT AGGTAGGGCT AGTAGGTAGG GCTAGTAGGT  
 AGGGTTGCTA GTTAGGTTT GTAGGTAGGG TTAGTAGGC GTCTTCTTT CTCCACCT GGNCTTGT AAAACNTTAT  
 TTTACAGCA ATAGGAATTT G

SEQ ID NO:891: (Length of Sequence = 344 Nucleotides)

GACCTGGCTG CGCACCAGGA CCGCTGGAG CAGATGCGG CCAATGCCCA GGAGCTCAAC GAGCTGGATT ACTACGACTC  
 CCACAATGTC AACACCCGGT GCCAGAAGAT CTGTGACCAG TGGGAGCCG TGGGCTCTCT GACACATAGT CGCAGGGAAG  
 CCTGGAGAA AACAGAGAAG CAGCTGGAGG CCAATGCCCA GCTGCACCTG GAATAGCCCA AGCGCGCGGC CCGCTTCAAC  
 AACTGGATGG AGAGCGCCAT NGAGGACCTC CAGGACATGT TCATGTTCCA TACCATGAG GAGATTGAGG GCCTGATTCT  
 CAGCCCATGA CCAATTCAAG TCCA

SEQ ID NO:892: (Length of Sequence = 367 Nucleotides)

CTGGGCAACA TGGTGAACCC CATCTCTGCT AAAATACAAA AATTAGCTGG GTGTGGTAGT GCCTGCCTGT AATCCAGCT  
 ACTGGGAGG CTGAGGCAGG AGAATTGCTT GAACCTAGGA GGTGAGGTGG AGGTTCAGT GAGCCAAGAT AAAAAGAGTG  
 AGACTCGCTC AAAAAAAAAA AAAAAAAAAA TATATATATA TATATATATA TATATTNGN CTCCAATCCC ATCTAGGTTG  
 CTGCAATGC CATTATTTC TCTTCTTTA TGGCTGAGTA GTTTTCCACT GTGTATGTAT ACCACAGTTT ATCTTCTGT  
 TGATTGATGG GCGTTTGGC TGGTTCCCA TTGTGCCAG TTGCAA

SEQ ID NO:893: (Length of Sequence = 220 Nucleotides)

GCAAAATATT TATTCCAAGT TAGTTATTT ATGCACTAGT TTCCCTCTG AGACTGTGA TAACCACATC TTTTAAATCT  
 GTAAATAATG TTATCAAAT AATCTTAATC TTTGAAATCT CACAAAAAT TATATTTTAC AATCCACCT GAATATCAAG  
 GCTGCAAGAN TAACACAACA TTCTTATAT CCAATATTT TACAGCTGTA CCAAAAAGG

SEQ ID NO:894: (Length of Sequence = 313 Nucleotides)

GGGATTGGGA TGTGTTGGCT CTGAGGCTGT TAAGTCTGGA CTGATGCTGG AAATAATAT CAATGTTTA CAGGGTTGAC  
 TGTCAATAT GATGTGCTA GCTGTGGGTA CAGATGCTTT GCACATTACT ACCCTCTATT CTCACAATCT TCCATGGGGG

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ATGTATTAGA ATCCCTTTT ATAAAGGATA AAGGTGAGGG TCAGAGAGAC TAGGAAGCCT GTNCAGGGTG ACACAATACA  
AAGTGTGATA AATTGGGTTT GTACTCAGCC ACTCTGCTTA TTAACATCAG CAGTATGGTT AATGGGGTGA CCG

SEQ ID NO:895: (Length of Sequence = 304 Nucleotides)

GGTCTAGATT CAGTTATGAA TGTAGGCATT AGTTAAAATT AACAGATGC AGAGTATTAA TTCTTAAGA CAACAAGTG  
ATTTCTGTAA GTTGAGCCC TATGTGAAA GCATTGTGGA ATCTTAACCT TTTGTACAC ACTCTGTGG GACGTATCAT  
ATAAATGTCA GACTAAGTA ATGCTTGT TGTGGCTGAA TATTTTNCGT AGATGTTTT GAAGTTGACA TGACTTACGT  
GCATTTAAT ATATATTGCC ATCCCTTAGT TTGTAATTAA GGATTNGGA ATATGGGTTG TGGG

SEQ ID NO:896: (Length of Sequence = 337 Nucleotides)

GCAAGTATT TCATCATATG CATGTACTGT ACCTTATTTA GCCAGCCCCA TTTTGTGTTGG CTGTGGGAGA ATTACAATAG  
CTGTTTGGAC TGTGTATCA CATGCCAGGC ACTGTACTGT GTATTATCTC ATGTAATCT CATAGTACT GCATGGTGTA  
GGTATTTTNA TCCCCAGTT ACAGGTAGAG AAAGTGAACC CAGAGATGTT AAATAATTG CCCAAGTTTT TTGGCTGATT  
ATACTGATGA AGATACTGAT ACTAGCAATC TGTGTGAGT TATTTGCCAG ACAGAACTCT TTATTTTTTA ATACATAATA  
TCCATTTACT CTGAGG

SEQ ID NO:897: (Length of Sequence = 316 Nucleotides)

NATCACCTNA GGTGAGGAT TCNAAACCAG CCTGGCCAAC ATGGCAAAC CCGGINTCTA CTAAAAATAC AAAANTNAGC  
CAGGTGTGGT GGTATGTGCC TGTAAATCCA GCTACTCAGG AGGCTGAGGC AGGAGANTCA CTGAACAGG GAGGTGGAGG  
TCGCAATGAG CCGAGGTGTC AGTGAGCCGA GATTGCACCA CTGCACTCCA GCCTGGGCGA CTNAGCGAGA CCCTGCCTCA  
AATAAAGAAA TAAATAANTA AAGTGGGGAA GTTAGTGGTT TCTGGTGTAT TCAGAGTTGT GTACCCATCA CCCTGG

SEQ ID NO:898: (Length of Sequence = 200 Nucleotides)

GAGATCTGGG GCTGGGGTAT GGATGATGGG GGAAGGGCG GTGCGCTCTG CCACTGTCAG GGACCAGCCG GCCAACGCCC  
ACCCGNAAG GTGTCTAAAA ANTTNAGCTT TTCACCCACC TGCCCTTTC TTCAATCCC ACSCGTGTTT CTTTCAAAGT  
TCTGGGAGGA CGAACTCACC GAGCGGAGAA GINTAACATT

SEQ ID NO:899: (Length of Sequence = 264 Nucleotides)

CTCTGTAAGT TAGCGGTAT GTTTCAGCC CCATGCAAAG GCGCAANACN TCAGACAGCG TGGTTCNTN AACATNAGT  
TGTGGTGCTT CCCAGGAGCA GGGATTINAG CNAGGCTGCT GACACATAAA CACACCCCA CCTCCAGAAG CAGAGGAGAG  
GAGCCAGGG CCAGGGCAGG TAGCTCAGCA AGGACCCAGC ATGCTNCAGG TGGGGCCAGT AAGAGTCACT TCTCCAGCNA  
GGTTCAGAGA GGAGAGAGGC AAGA

SEQ ID NO:900: (Length of Sequence = 265 Nucleotides)

GCAATGGTA AAAAACAAG TCAGCAGAAG AAATTAGAGG AGAGACCACT TAATAAATGT AGTGATCAA TAAAGCTAAA  
AAATACCACT GACAAAAGA ATAATGAAA TCGAGAGTCT GAAAAGAAAG GACAGAGAAC AAGTACATTT CAAATAAATG  
GAAAAGATA TAAACCCNAA ATATATTGTA NAGGTGAATG CTTGAAAGAA ATTTCTGAGA GTAGAGTAGT AAGTGGTAAT  
GTTGAACCA AGGTTAATAA TATAA

SEQ ID NO:901: (Length of Sequence = 381 Nucleotides)

CTTCTGTGCA TATAAAGAG AACAGTCTGG NCACTTGAAA ACAGACACCT TCTGTTTTC AATGTGTTGG TCAAAGTGGC  
GATACACAA GGTGTGAGG GTGAACACAG TGTGCAAT GGAACACTTA TATAATTT TNGGTTCTCC TATCTTGATG

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CCAGGATGCT GTGTGTAGGC GTGGGAATNT GTGCTTGGGG CAGACTTAAA CGCCATGGA CAAATAGGAC ACTTGTAGAA  
 GACTTCACAG TGAGAACCIT GAATNTAAGA CTTACAGACA GCCACATCAG AGTACACAAC CATTGCAAAT GCACCACATC  
 GAAAACCAAC TCTCCTCGTG TAGINCAGAC AGTTCTTTGT GGGGTGGGGT CTNGGAAGGT G

SEQ ID NO:902: (Length of Sequence = 331 Nucleotides)

GGTTGCCAGT GATCTCCTTT CTATCACCT ATAGACAGCT TGCCACAGG AAAAAAGAAA GCCAAACACA GACAAGCAGT  
 ATGAGATACA ATGAGCGCCC TTGGGCCATT AAAATATGAT TGINTGCCCA AGGTGCGCTG GNTGCAAAC AGCTCTCCAG  
 AACCTGCAGC CAGCACAGAC CAAAGTCAGG TTTGINTCCT CTTCTGTGTA TGAACAAAGG TTGATTCAT ATCGTGGCTA  
 TTGTGAATAG TGGCAGTAAA CATGGCAGTA TTGTATGAAA ATATNACAGA TTAGNCCCTT TAAATATGTG CACTATGNT  
 GATCTATCAA A

SEQ ID NO:903: (Length of Sequence = 389 Nucleotides)

AGCAATACTA AACATAATG TAAATTGGGC TAAATGCTCC CAATTAAAAG ACACAGAGTG GCAAGCTAGA TAAGGAACCA  
 AGAGCCATTG GTATGCTGTC TTCAAGAGAC TCATCTCACA TGCAATGACA CACATAGACT CAAAATAATG AGATGGAGGA  
 ACATTTACCA AGCAAATAGA NAACAACAAA AAATATTTCT AATAGATTTC TGCTTTTAAT AATGAAATAT GTCAAACCTC  
 TATAAAACT ATATGTAGGA AATATAAANG TTTATATATA ATTCATGTAA TGGNTAATAG TAACITGAATA GCTAGTATTG  
 AATAACCAAG CTTCTTTTG TTGTTTTGTA CATTTGNTA ATTGAACATG CTTAAAGGTA TTGGGAAGG

SEQ ID NO:904: (Length of Sequence = 285 Nucleotides)

AAATCAAGGA CCGGTAGAT AGATGATGGG CTAGGCAGGT GGGGGAAGAC AGAGCTCACT GCGCTNTGGG GTCTCTGTGG  
 GGCCAGCCCC TATGCCCCAT GTGGCCACTN ATGCCAGCT TCCCCAACA CCCCANCACA GGCCAGGTC AATATTACAA  
 AAGTGAACAA ATGCAACCTG TTTCTGCTTT NACAAATGAC ATGTCTCCAT CCGCGCCAG CAGGGGTAGG GGAGGCGGT  
 TGAAAGTGNC ACTCCGGTA AAAAGGCAAC AACTTTTATA AAATG

SEQ ID NO:905: (Length of Sequence = 374 Nucleotides)

GAAGCAAAAA GTTGAACCTT TTAAAGTGCT GAACACAAAT CCAATTGGA ATGGTTCAAG CAGCCGTGAA ATCGCTCTTC  
 ATAAAGTGGG CTTAATCTC TAGTTTAAGT TCTTTTGATG GAATGAATTA ATTAATGTGT CAGGTGGCTT ATTGTGGAT  
 GCCATGATTG ATGATGTTCA TTTTAAGCTC TTACCTATAG TACAAGTACA TGATGCTACT GAATATTTTT TCCACTTGGA  
 AACTGTGAGC TGGGTGTTG CATTAAACA CACATACANA CANAATCANN AAACACTGCG GACTTTTCAC TCAAGCTGGG  
 TCTTTCTTC CCGAGTGGTA AGGGCAAATC CTGGCCTANC TAACCAACAC CCAC

SEQ ID NO:906: (Length of Sequence = 375 Nucleotides)

CTGACTGAAA GGCTCTTCC AGCTCCAACA CATGAAGGT CCATAATTT CCCCAAATGT CTGCGCTCT GAAAACCTCA  
 ACTATCTTAA TATTGTGAC ATTTATGCT GTGTATGGCA ATCTGATGT AAAAGGAGCC ATATGTAAAT AATAACTGAA  
 ACTTTGTCAA AATAATGTTA AGGAAACATA ATTAGCAAAG CAATATATAA TINCAAGTCC ACTGATTTAG AGAATCAGAA  
 GTAACANITA GAATCAGAAA TAACAACIAT CTGGCAGGGA TGA AAAAATG AGAGCAGATA TAAAGGTGT ACCCAACCC  
 CTGACCCAC TGCCCATTTG GGTGTGCACT ATGINTTCC AATATTAATA TCTTT

SEQ ID NO:907: (Length of Sequence = 390 Nucleotides)

GTGCTGACTT CAGCAGCCCT CTGAAAGGCC CTTCCATAA GCTGGGAAAG TATGATCATG GTTTCATCAT CCTGTGTGGT  
 TATTACTTCA AGGTGACCA ATCTGAAAGC TCTGTGTGAA GAAGGGGACT GAGTGGCTGT GAATGATGAG ACCGTGTGTT  
 AAAAGCAGG CTGTGCTGA GGTCCGGAAG AAGCAACCTC AATCTGTGC TTACCATAG CACCACCTGC AGGATTCAG

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GAATAGAGAA CCCAGCTGAG CGACTCATGC TTNACCAAAA ATACCCAGAG CAGTGTGTCT CTACCTTTT AAGCCCATGC  
TCACTAGTGG GGAAACAAT TTTACCCCC TGTATTTAAA TATGGGGATT TCAAGGCAAA CAAAAGCATT

SEQ ID NO:908: (Length of Sequence = 207 Nucleotides)

CTTGCAACA GGTGGTAAAT TATTACATTA TTTCTNCTC CTGTCTACCT GCAGTGGT TTATGAGGGG CGTAGTACA  
CTTCCCAAAG GGCTTGCCCG CAGGTNAGA GGTGCACATT GAACTCCCTC ACCAGGCAGA TGGGAAGTGT GGCCATGAGA  
GAGAGCTCA GGGGNCCTNG GNTTATNACA TGGCTGGGCC AGGANAT

SEQ ID NO:909: (Length of Sequence = 339 Nucleotides)

GCAAGAGAAC CTGATATAAT ATCTATAAAT TTTGATTCCC TGGGGTATAA CAAGTAAATA ATTTTAAAT GGTGCTTAGC  
AAGATTGGTT CATGGNAAAT GAAGCAATTA TGGCTTGANT TTATATGTAC AATATTTATT GTCTTAATTT TAATTTAAAA  
CGAATGACAT GTCTCTTTT TTAATAAAG TCTTCTTTA AAGATCTGT AGTGTATGT ATGAGCTATG CACTGCTAAA  
TATTTATCCA CACATAAATA TTTGANAAGG AATATGGNAT AGTCATGGGA TGTAGTTTCA TCTCAGTGCT CCATGGAGGG  
AGTGTTTTCA CCTCTCTCT

SEQ ID NO:910: (Length of Sequence = 372 Nucleotides)

CTCACTGCC ACTACCTAT CTACCATCCA CTACCCANIN ACCACCCACC ATGACCCACC ATTTGCCATC TACCCATCCA  
TCCATCTAT AAATAATTAG TAAGCACTTA ATGCATGCTA GGTATTATTT TAGGCACCAG TAAGACAATC ATGGGNAAAA  
AAGACAGACA ACCCCCGACC CTCCCATCCT CAGGGAGCTC TATTCAGTG AGAACAATCA ATGTGCTAGA TTGTGAAGGT  
CATCAGTGCT TGCTGCCCGT GTAAGACTGA GGTTCOCAGG CCGAGGACC AGNCTGGGCC AGGGCTTCCC AGGGGTCINC  
T...GGGGGA CTCTCAGGAG TCCAGCTGCT GCCCCTTAGC TNAGCACTG GG

SEQ ID NO:911: (Length of Sequence = 377 Nucleotides)

GAACTTCAAA AAAAAAAAAA AAGAGGAGTC ATAATAAATA TTINACTGTC TAGTCAACCC AATTTATGAA GCTGATTAT  
CTAGCTNAGC CTCGGGAGAT TGCTACCGGA AATCTCCCA GATGTCCCC CTCTAACCC AACTNTCCAC TGINTGSCAG  
GAAGCAGCC GGGCATCTGC ATTCCGGAAG CCCAGCTGCT TGGGAAGAGA GAGGGAGCGG CCTGCACGTN ACTCAACAGC  
CCTGCTGCT AACCAGTTAA CCAGTTCTCA GTTGGGTCA CGGACCCATG AGCGACCCAG CTCTCTTCCC CTCAGGTTGA  
TATGTGCTC CAAGCTNGGG GATGCCCGG GGGACTATGT GGAGGGAGAG TTCCTTA

SEQ ID NO:912: (Length of Sequence = 370 Nucleotides)

ACAATCTACT TGCTACAGAA TCAGGATGTA TTINCTATT TATAATAAAC TACAGAAGGT AGATTTCAAA GGTAATGGCT  
GTTATGAAA CCTACTGAG GTGTCTGCT AAAACCAACT CAGTGTGCAA AGCGAAATAC ATTINCTACT TCAATAGCTC  
CTCATACTGC ATCTGTCTGT AGAGTTTATT TCAGTAAAAC TGTTTACTAT TTCATGATGA GTAGCTAGAA TTAAAGCATT  
AAGTAGCTTG AGAAAATAAT CTATATAAAT CTTTATATCC TACATATGCC TATAAAAATA AATTTATAAT TTTAAAAATT  
GTTTAAATA AACATTTATT TTTACCTA CCAAAGTAA GGTATACAG

SEQ ID NO:913: (Length of Sequence = 313 Nucleotides)

GTATCTGGTT GCCACATCCA AGAAGAAGC GTGCNINTCG CTGGCTTTN CTTCCTCTA TAAGGTGGTG CAGGTTTTT  
CCGAGTACTT CAAGGAGCTG GAGGAGGAGA GCATCCGGGA CAACTTNTT ATCATCTACG AGCTGCTGGA CGAGCTCATG  
GACTTGGCT ACCCCAGAC CACCGACAGC AAGATCCTGC AGGAGTACAT CACTCAGGAA GGCCACAAGC TGGAAACAGG  
GGCCCCGGG CCACCAGCCA CCGTACCAA CGCGGTGTCC TGGNGTNGC AAGGCATCAA GTATCGGAAG AAT

SEQ ID NO:914: (Length of Sequence = 389 Nucleotides)

TTACAGGCGC CTGCCACCAT GCCCGGCTAA TTTINAGTAG AGATGAGGTT TCACCATGTT GGCCAGGCTG GTCTCAAACCT  
CCTGACCTCT GGTGATCTGC CCACCTCAGC CTCCCAAAGT GTTGGGATTA CAGGCGTGAG CGACCGTGCC TGGCCTTCTC  
CACTGTTTTT ATAGTGAAGA AAGGACACCC AAATTTTGAT CTGGTTCAGC TATTCACAT TCTATCCTGT GTGGTCTTAA  
GCAAGTTACA TAACITGCCT ATATCTCAGT TCACTTAGCT ATAATATAAA TTAAATGGT CAAATGTTCT CTAAAGTCTT  
ACTAGTTACC AGTGTTCAT GGGCCCAACA GCATCTACAT TACCTGAGGA GGCTGGTAGG AAATGCAGG

SEQ ID NO:915: (Length of Sequence = 328 Nucleotides)

CNCCAGCAGA TTTINATTAG ATGGAAGATA ACAAGCATT A CCNATAGGT AAGTGGTAAG AAATGGCAAG TACAGCCAAG  
CCACAGAGGA GTGAGGACAT TACTGGCTAT GGGAAATGGT ACTTATGAAA TCTAAGGGTT GGGTCTCTCG ATGAACCTTA  
ACTACCCAGT AAGCTCTTCT CTTTGGCACT CAATATGACC NCTGTGGCA TGAAAGGGNC TACAGTAGCT ACTTTCAACT  
TGGCCAACAG TTTCTCCAGT TCTGGTCGAG CTTTGAATCG TCCCTTGAA GTCTTCTTC AGNTGGTGCT CCTTCAACTT  
GACAAGTC

SEQ ID NO:916: (Length of Sequence = 365 Nucleotides)

CAACTTCAAG GTGCTCAAG AGCTTTCAG AAGATGGGTG TTGACAAAT CATTCCTGTA GAGAAATTAG TGAAAGGAAA  
ATTCCAAGAT AATTTINAGT TTATTCAGTG GTTTAAGAAA TTTTTCAGC CAACTATGA TGGAAGGAT TACAACCTC  
TNTGGGCGG GCAGGGCCAG GACGTAGCG CACCTCTAA CCCAGTCCA CAGAGGAGT CCCCCACAGG CCAAAAAAC  
ATGCAGACCT CTGGCCGGCT GAGCAATGTG GGGGGGGCT GCATTCCTCG GAAGANTCCT CCATCAGCCC GAAATGGCGG  
CCATGAGACT TGATGCCAA ATCTTTGAA CTCAAACCA CAGCT

SEQ ID NO:917: (Length of Sequence = 400 Nucleotides)

GCATTATTTA TTGAAACTA TGTATTTTT TGTA AAAACC TGATCACATA GAGAAATCA GTGGCTATAC CCTCTCTGGG  
CATCAGTTT CTCTCTGTA AAGTGGGGAT AATCACAGC CCCACCACAG TGGGCTTCAG GGAGGAATAA ATGCATTAC  
ACATGGCAAG TCAATTAGGA CGGTGCTGA CAGGCTGTA GGGCCCAAGG TTGTGACTTT TGCTTTCTCT ATGTCTACTC  
TGCAACCAAC TTTAGATAGT GGTAGANTAA TCAGGAGGCC CTCITGAATG GGATATTTG CACAGAAGAG GTCCCAGACC  
GAGTGTGTGT GACATGGGAG CAGAAGACC GGGGTTINAG CCAGGCTCTG CCATCATA GGTGTACAAT TTTCAAGGG

SEQ ID NO:918: (Length of Sequence = 348 Nucleotides)

CTATTGCACA TGGTAACTCT GTCATACATC TATAAAGCCT AGTAGCTGTA TTGGGAGAGA TGAAAAAAC TGCTTATATT  
CCACAGCAAC ATAATTACA ATAAGTTTAA ACCIATTAAA GTACAGAGTC TCTCTCATCA CTTTCAAAGC AGGACCTTAC  
TTACCAATAA TTCATAGCAT ACCTCCCTT ATTTTAAAC TCATATGATA GCTGATTTCC TAACTGTAGC AATCAGGATT  
CTTAGAAGA TTGAAACTG AATTAGCTA ACTAAGGAAG CGGATTTTAT TAAAAATATT GGGTTAGTTT ACAGGAATCA  
GTAGTGGAGG AACCAGGGTT GCATAAAA

SEQ ID NO:919: (Length of Sequence = 345 Nucleotides)

GGGATGACTT TAAACGAGAG CTGGACAGTA TTAATCCAGA AGTCTTCTCT GGGTGGAAAG GAATGAGTGT TTCANACTTA  
GCTGACAAGC TCTCTACTGA TGATCTGAAC TCCCTCATTG CTCATGCACA TCGTGTATT GATCAGCTGA ACAGAGAGCT  
GGCAGAACAG AAGGCCACCG AAAAGCAGCA CATCACGTTA GCCTTGGAGA AACAAAAGCT GGAAGAAAAG CGGGCATTTG  
ACTCTGCAGT AGCAAAAGCA TTAGAATATC ACAGAAGTGA AATNCAGGCT TGAACAGGAC AGAAAAGATA GAAGGAAGTC  
AGAGGATNCC ATGGGAAAAT GAAAT

SEQ ID NO:920: (Length of Sequence = 299 Nucleotides)

CCCAGGTACT CAGGGAAGGG GCAGGAGAAC CACTTGAGCC AAGGAGTTCA AGGCTGCAGT GAGCTGTGAT CACACCACTG  
CATTCCAGCC AGGACAACAG AGTGACATCC TGTCTCAAAA ATAAATAANT TTTTAAATGA TGAACCTAAC TAAGGTACTG  
AGGAGGTAAG ATATTTCCCC ACGGTAAGTC ATTGAGAAAC TAAATGTGAA AAACCAAAAG AAGCCTCTGG GGTAGTATT  
CCCAGTCTCC TTGTCTGCCC AGGACCCAC ATTTGTGTAA GTTGCTAATT GCACAAGGG

SEQ ID NO:921: (Length of Sequence = 234 Nucleotides)

ATGAAGCAGA GGCAACCAAC AGAAATTGAC ATCAGAAACT CTGCTGGATC CCCACCAGCA TGCTACCGAT GANTCCTGCT  
CTCTTTTACA TGAAATTTTA TTTTITNCC AATAAGGCCA GCCCTACCCT GGAATCTGGA ACCANTCTG GCCCAGGTA  
GAAAGGCTAC CAAGCACCTA TGGTAGAAGC CCTGGGTCC AGGNATGCCT TGGNCTTAT TATTGACCTT CTCT

SEQ ID NO:922: (Length of Sequence = 328 Nucleotides)

TAGCAGGGTT ACTGGCCTTG GCTGCGGCCA AGGGAAACT CTGCAGGCC TATTACTTGG CGGCCTTTAA CTCTTATAGA  
ATTGGGAGAG AACACTGACA AAAGCGAGGA CATGATTTIN CGGTACAAA TNAATTTCTT TCTTGCTTT CTCTCACCC  
TTTNAATTT TCCTTTCTN CTCTTCTGT CTATCTTACC TTCCCTCGT GATCCCTGCC AGCCCTCTT TTCTTATTAT  
AGCTGATCAT GGCAGTATG TTTTINCTG GGTAAAAATC AGAGTGGGAT TTAGAGAAAG CTAGCAGGC CTAGCATGAG  
GGCCTTAG

SEQ ID NO:923: (Length of Sequence = 371 Nucleotides)

CAGGAACTT ACTGTGAAA TGCAGAAAA CAACAGCAA AATTGATTGT TGACTCAATA TGATATATAG TTCAAATGTA  
AACAAATGCT TGTNAGCAAT CCACATCACT GAAGGAAAA AAGTAAGTTA TTATTTCCAA TGTGGGAGT TAGGTTGCTA  
TAAGCTTATG AHCACACACT TTCAGTGAAT TTATGTAGAA TCGGAAGCAC TTCAATCTCC CTTACCACA CATCACCCC  
TTGCTCTCC TCGACCGTG CAAAATGATA GGGCATGGTA GGGGTGTAG TGAATNGAG AAGGCATGCC CCATCTCAAG  
AAACAGGGTG GACCAGCAC AGCTTTCAGC TCCANTTGT GATACAGGAA T

SEQ ID NO:924: (Length of Sequence = 371 Nucleotides)

ATGATCTGCT TTTTITGAT ACCTTTACTT TINAG AGGNGCGGG TTTCTGGAGC CGACTGAGGG ACTGGAGAAG  
GCTACGGGG TCTCGCCCT GCCAGGGCAA TCCTT CTCTTATCA TTTGGTATG CAAATCGGG TAAAGTTTT  
CGAAGGGG TGCTGGCTCC TCTTGGCAGC TCTCTTCT GACTTTGGGC ACCAGGGCTG CTCATACCTG CAGCCTTTTC  
GGCCTCTNG GCCCGCAGGC GTCCGGCTC CGAAGCACT GCCATGGCC GGAATAGCAG CCCNGAGCA AGG

SEQ ID NO:925: (Length of Sequence = 317 Nucleotides)

AATGCTTTAT GATCAACTTG CCATAGGACT GATGGATTAA CCAGTGTTCG GCCTTATTG AAGTCTATGC CCTGCACAGC  
TCTGTATGT ATTINAGATG CTAGAAGTT TTINAGCATG TNATGTGTA TTCTGTGTTG AATTCTAGGN ACCTGTCCA  
ACTTGGTCT TTTTCAAGGT TGTTTGGGT ATTCTGGGTC CCTTGTCTT CCATATGNAT TTNAGGATCA GCTTGTCAAT  
ATCTGCAAAA AAAAAATCAG CTATATTTG ATAGAGNTT GTATTGCATC TTTAGGANTG GTTGTGTGAG TATTGCC

SEQ ID NO:926: (Length of Sequence = 247 Nucleotides)

GTTATTCATA CCACAGCATT TAAAAAGCAA TCCGCAAGTN ATAAAAAAA AAAAAAAA ATGATGTGAC ATATCCATTG  
CCTGANITGC CTCCTTTGTA AGCCAGTNT GGGATTATAG CAGAGGAGTA GCAGAAATAA NTATATTCAG ACACAAACAT  
ATAGATATAA TAATATCCAA CCNCTTTATA TGATTAGGG TCTGTATAA ATGTTTACCA TTTGCTCTC CTAAAAITA  
TATAAT

SEQ ID NO:927: (Length of Sequence = 286 Nucleotides)

GGCTGTCTATG AGAATCACIT GAACCCGGGA GGCGGAGGTT GCAGTGAGCT GAGATCATGG CACTGCACCC TAGCCTAGGT  
GACACAGCAC AAAAAAANC AATGTTCCAC AAGTCAAAA TTGINTCAG GGAGTAGAAA AGTAGTAGGC TAGGTATCAA  
AGGGTATGAA TGACTAAGTT CCTTCTATAA TATATTGACT ATAGGTTAGG AGATACACTT TCAGTTCCCTG TTTTNGTAG  
ATCTCCCAAT GATCTGTCTAT TTAAGAGTAC ACACGATGAG TGGAAA

SEQ ID NO:928: (Length of Sequence = 349 Nucleotides)

CTGTGTTAAC CAGTATTTAT TGCACATGGT TTTGTATCT ATTGCATGTG GTAAATTACC CCATACCTTG CTTCCTAAAG  
CATTAGACAT TTCTGTAGGT TAAGAATTCA GAAGCAGCTT AGCTGAGCAG TTCTTGCTCA AGGTCTGTCA TGAGGTGCA  
GTCAAGGAGC TGGCCAGGGC TGCAGTCATC TGAAGGCCTG ATTGGGGCTG GAAGACTCCC TTTCAGATG GCTCCCTCAC  
AGGCTTGSCA TGTCAAAGCT GGATTGTTGG CAGGGGACCT CCATTCTTCC CCACATGGGC ATCTCCATAG GCTGTTTGAC  
ATGGCAGATN GCTTCTCCA GCAACTGGG

SEQ ID NO:929: (Length of Sequence = 395 Nucleotides)

AGAGGAGGCA GCAGCCACCC CCAAGAAGAC TGTACCTAAA AAGCAAGTTG TGGCCAAGGC CCCAGTGAAA GCAGCTACCA  
CCCTACCCG GAAGGTTCT AGCAGTGAGG ATTCTCCAG TGACGAGGAA GAGGAGCAA AAAAACCCTAT GAAAAATAA  
CCAGGTCCCT ACAGTTCAGT CCCCCCGCT TCTGCTCCC CACCAAGAA GTCTCTGGGA ACCAGCCTC CCAAGAAGGC  
TGTGGAGAAG CAGCSCCTN TGGAAAGCAG TTAAGACAGC AGTGATGAGT CTGATTCAAG TTCTGAAGAA GAGGAAGGAA  
ACCCCAACT AAGGSCAGTA GTCTCTAAAG CAACCACTAA ACCACCTTCA GCAAAGAAAG CAGCAGAGAG CTCTT

SEQ ID NO:930: (Length of Sequence = 214 Nucleotides)

ATCCAACAT GACAACCTCT CTTCGGACAA TATTGGCACT CCATTCAAAC CTGTGTTTCTG GTCAGTCCGC ACTTCATCAT  
CTCCAATTT GTCCAAACA TACTGTAGCT CAAGTACAGT TTTTAAACGT TTCTGTNCAG CTCTCTCTCT CATAAGCTGC  
TCCGACGTG CTGTCTTCTT NATGTGTTT TGAATATCTT GACTTAGTGC CATG

SEQ ID NO:931: (Length of Sequence = 245 Nucleotides)

GAAAGTNTT ACAACATGA TGCTTATCTA ATAAATATC ACTGAGCAAT AAGGAGAAAT ATTTTAAATA GATTGGAAGT  
TGTAACAAA TAATTAGAG TCCAAAGAGG ANAAGANAA TTAAGTCTGT TTTTATCC TAGAAGTCAAG AAAGTTTACT  
GGATTGGTCA ACAAGACAA ACTTTTTAT TGTATAACA GTAGANTTCA TGGAGGGAT AATNCTTTG GAACAGGCTT  
CTCG

SEQ ID NO:932: (Length of Sequence = 303 Nucleotides)

CATATTGGGG GOCATATA AAGCAAAGCT GGAAGAAGG ATGATCCATG TATTINTGGG GATGGGATAT GGACAGGGAA  
ATAGTGTCC AACTCCATGC TGAGTGTGT TTTGAATGT AATGTGAAGT TGCCACCATA CCAGGGCTAT GACTGTNTAC  
GATGTCTAC CTTGTAGGC TAGTAGCTTT GCAGTGGGAA AAGATGACAG GGCACTTGT CCAGGGCAIT CAGGTAATAA  
AGTCCCTGAG CTCCAAGTTG CTAGATCTAA GGAAGTATTT TTCCCTTCAT GTCAAAGATG GGG

SEQ ID NO:933: (Length of Sequence = 186 Nucleotides)

CTCTTTTGGG CTGTTTCA TCTCCGGCA ATTGAAGCA GTGATCTCTC AGGTGCTAAC CGGNATAGTA TTAGAAGACT  
CCAATATCTT GCACCTGTG GGACTTACTG TATTTCTT TGTGTTGTTT CATTTGCTT TGGGTTCTG GTCATGAGGT  
TTTGCCTAAG CCAAGTCTT CAAGG



SEQ ID NO:934: (Length of Sequence = 336 Nucleotides)

GGGAAAACGT ATCAGCACAT GAAATACCTT GTAACATTTT CATTATATATA ATTTGCTACG TGTCTTTTGC AACATAGTGA  
AAAATAATCA TGTCTGATGT TTAGTAGGCA CATAATAAAT AGTAATGGAA TGAATGGTTG TATATTTAGA GAGCCATGCT  
GAAAGGTTAA ATAGCAAAT ATGACTACTT GGAGAATAAT GTTAAATTGT CAAGGAGAGT AGTGTATATAT GAATACTCAG  
ATGGATGGAT ATATAGANAA TGAGAAAAGC GACAGAAGGA ACTTAAAGAG NTTTTAAAAA TAGCTTTTGC TAAAGATTAA  
AAATTAAAGG TTCTAA

SEQ ID NO:935: (Length of Sequence = 383 Nucleotides)

AGGTAAGAAA ACTGCTGAGT GGGCTCCTTG TACCAGCACC AACCAGCAGC CCTTGACAGC ATAGATGGGA TGAGTGTAAG  
GGCTATCCTT AGCATAAGGG AAAGACGGTT ATAAGCTGAG AAGATTGAAA GAAGAATGGA GCCACAAAGA GAATAGCATA  
AATAACAAGA AGGAAACATG AAGAACAAGC ACTTAAGNTA TTAACTTTCA GTCTTTCTCC ATTCTTTGAT GTCTAATGAG  
GCAAAATAAC TGGGCAAGGA CCACCAAGAT GAAGAAGTTA AATAAAATGT CACAATGAAA TTNAGGTGCA ATAATACAAC  
TGTTGACTGA CTTTCCAAA CCACGGTGAT CGGTAGAGTA TCATCAATGT TACCGAGGAT TTT

SEQ ID NO:936: (Length of Sequence = 204 Nucleotides)

GAAGCTGTGC CACCTTCTN AACTTTNATG AGCTGCCTNA GCCGCCAGCC ACCTTCTGTN ACCCAGAGGA AGTGGAGGG  
GAGCCCCCTG ATGCCCCCA NACCCCACT CTGCCCTCAG CCCTTGAGGA GCTGGAGCAA GAGCAGGAGC CGGAGCCCCA  
CCTGCTAACC AATNGCGAGA CCACCCAGAA GGAGGGGACC CAGG

SEQ ID NO:937: (Length of Sequence = 386 Nucleotides)

CTAACTAAT AAGGGTTGCC AGATAAAGTA CAGAAGGCC AGTTAACTT GAAATGCATA TGANCAAGAA ATATATTINA  
GTATGANTAT GTCTCATGCA ATATTGGGA CATAATTATG CTAAAGAAAG TATTCACAGT TTNCCAACA TTCAAATTGG  
AATGAGTGTG CTGTATTTTN ATTGCTAAA ATGGGCAACC CTAAGCTGGT ATCTCTACAG TTACATACAC TTACCAACCC  
CACCCATTCA TACTGGTCCA AGTTACACC CAAAAGAGGG CAGAAACAGA ATCTGAACAA GCTCAAGTTT NGAGGGCAAA  
AATGTTTCAT TCTGCCCTCT GGATTNCTGT ATGAAGACTT TTGTTGTGAA AGATATGAAT AGAACC

SEQ ID NO:938: (Length of Sequence = 349 Nucleotides)

GACACTTTCA GAATTAAGAA GCCTTGCCCT CTITGGGTGT CTTCACAATT GINTTAAGTC TATTATAGTA TTCATTTTAG  
TTTGAAAGCA ATAAATACAA TATTAGTACA AGCACACTGT CAAGAAATCC CTAGAATATG GCTCCTCTGA AGGTTGACAT  
GGGTCTGCT CGCATGTATC TTTTCATCTC CAGCATCCAG ATCAGAGTCA ACAACAACAA CTCTACAAAT ATCAGGCTTC  
TTGGTGAAA GAAATCTGGA CATTTTINCT ATGAAAAAAA AGTTAGGTTA CATGGCATTAT ATATTTTTCG TAGACTTAAC  
CTACAGAAAA TGTTTCAAGC TTATAAAAA

SEQ ID NO:939: (Length of Sequence = 374 Nucleotides)

GAAATAAAGC CTCACAAGAA ATAAGGTGCT TATGGTGTGA AGTTACAATG GAAAATAATC AATGGCATTT GTATGCATGC  
TGCAATGTGT ATGTAGATCA GTTCATAGGA GATGGGGCAA CAAATAAATA TCACCATGGG GATGTGATCA TCAAAACCCA  
GGCTGTGGAA AACTGTCACT CAAGTTTCTT CAACATATTG CAAGAAAAAT ATGATGGCTT GAAATCTAT AGATGAAGCA  
ATTTAACAAA CCTACCAATC TCATTTAATC TTGATTACTT TTAATAAAG ATTAATAAGA TGACAGAGAA AGGGTTTAA  
AATTTGTAAG ACACGGCTGG ACGGTGGGC TCACACCTGT AATCCAGCA CTTT

SEQ ID NO:940: (Length of Sequence = 385 Nucleotides)

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GTAATCCAG CTACTTGGGA GGCTGAGGCA TGAGAATTTC TTGAACCCGG GAGGCGGAGG TTGCAGTGAG CAGAGATCAC  
 GCCACTGCAC TCCAGCCTGG GCAACAGAGC GAGACCTGT NTCAAAAACA ACAAATATAA TTTCCITTTA ACATCTGINC  
 CAAAAATGAG ATAAGCGTTA TCAGGCAAG TCCATCTCA TCACTCTTC CCTCCCCACT GCGCTCTCCA CGATGCCAG  
 CTGATCAAAA GTCATTTTTA CTCATAAGAC CAAAGTATCA TGGGATACTG TGCACTINGA GAGCAGGTG ANCATCAGAA  
 ATAATTGCTG ACAATAAGT AAAAGATGGG AGAAAAGCAA GGCCNATGT ATATAATACA GCTTC

SEQ ID NO:941: (Length of Sequence = 406 Nucleotides)

GGTAACAGGT TTTTACCAAC AATTGCTGT AGCTAATGTA GAACATACTT GAGAAAATGG CTTCTGTGAA AGACCAGTTA  
 GTACCAAAAT AATCTGGCCC AGAAAAATAG CCACCATCT TGACTACATT AATAGAAATA GAATAACCCC CAAAGGGAGA  
 TGAGAAGCAT TCTAAAGTGC ACTGATCATG AGTTTCTATG TGATGATTG TGTCATTG GAGCTCCAGT GCTTTAAAGC  
 TGAAATGAAT CCTGGCCTTT CACCACCTC CTTGCCATA GTATGGTATA TCTCTTATT CTTCCCTCT TAGCTTACTG  
 AGAGTGTAAT TTCCAACCAG TTAAGGCCAA AGAGGACTAT TTTCTAGGAA AGGAGAGAGA GATGAATTAG CAGTTAATGG  
 AGGAGT

SEQ ID NO:942: (Length of Sequence = 296 Nucleotides)

GATGCTCAT GCTAGTTCAG CAAATATTGG GCGCTTCTG GAGAAGAGAG GCTGTATCTC CATGCCAGAG CAGAAGTCAG  
 CATCCGGTAT TGTAGCTGTC CCTTTCAGCG AATGGCTCT TGAAGCAAA CCGCCANTG GTTATCAAGC TCCTTACATA  
 CCCAGCACCG ACCCCAGGA CTGGCTTACC CAAAAGCAGA CTTGGNGAA CAGTCAGACT TCTTCCAGAG CCGCAATTT  
 CTTCAATAAT GTCGGGGGA ACCTAAAGG CTTAGAAAAC TTGCTCTCTC AAGAGT

SEQ ID NO:943: (Length of Sequence = 223 Nucleotides)

GTGCCATTAC AACTTINCTG TAACCTGAA ATTGIGTCAA AGTGAATTT TTTTAAATGA GATTATAAGA GCATAATCAA  
 ATTGGAATTT CCTTAGGATA CCAGAGAATC ATTINCTTCT CAGGTAAAG ANTTTTCCTT TINGTAGTCC AGAGCTATAC  
 ATGATTAGA AANTGTCAG NCCAGGAAGA TGACATCTCT GCTAACCTAA TCGATTATCA TGG

SEQ ID NO:944: (Length of Sequence = 327 Nucleotides)

CCAGGCACTC AGGCTGGCTG TCCCTTINNT CCTCTGCC ACCCATCCA CTCTGAGCAT CAATGCAGCC GCGCAGTTC  
 AGGCAACCAG GCAGCACCTT GGCTGCCAG GCAGGCTAAG AGGCCCCAC CCACTCCCC CTCTTTGCC AGTGGAAAAG  
 CTGCGGTAG GCATAGCTTT CCCAGCCTC CTGCTTCAN AGGCAGGAGC ATGGCACTCT GGGAGTTGTA GTGCTCATAA  
 CACTCAGCG ATCCCTTGIG CAAATACTG GAGGAGAGGA CTATGGTATT GGGGAAGAGA AATTNAGGAA TAAGCAAGGA  
 GTTGGCT

SEQ ID NO:945: (Length of Sequence = 222 Nucleotides)

CTTAACAAT AAATACACCT GAGTAGTTT TCCAAACCTT TCCTCTGAT TAAATGCCCT TAAACTTAA ATCTCTTGT  
 ATCTTCAGTT GTGATCTAGT CCAAGTGG AATTAGTTT AGCTTTAAAA CCATGAATTT AAAGCTCAAG CCGTAGCTG  
 GCTGCTAGG CANTTATGA TTAGTTTAC AGAATAGCAC CCACTGGCTA CACAGNCCC AG

SEQ ID NO:946: (Length of Sequence = 286 Nucleotides)

GCCTCTCTA CCCCCTCATC TAGGTATGIN TATAGCTCAT TTATTTAGGG GTGATGTAA AAAATTGAAT GCGCTTAATG  
 GCAAGGGAC CAACCAATCA ATGTGGATG CACAATTTT TCCCTGTG ACTGTTGTA TTGTTATGA ACTATTTTTT  
 TTTCTCCA GCTTTATTT CAGGTCAAG GGATACATAT GCAGTTTGT NACATGGGA AATTGCATAT TGTAGGGTT  
 TAGTATACAG GTTATTTTAT CACCAGGNA ATAAGCTAG TACCTG

SEQ ID NO:947: (Length of Sequence = 335 Nucleotides)

GGAGGTGCAT TTNCTCCCCC TTGAAAGAT TTATGTAGAT TCCTAAAGA AAATTCAGAA TATGGAGTAG CTCCTGANTG  
GGGAGATGTT GTTAAGCAAT CTGGATTTCT TCCAGAAAGC ATGTATGANC GTATTCTCAC TGGTCCCGTT GTGAGAGAGG  
AAGTAAGCAG GCGGGGGAGA CGGCCTAAAA GTGGAATTGC AAAGNCACA GCAGCAGCAG CTCTGCAATC TGCCACCAGT  
GTTTCAGGCA ATCCTTTTGT TTAAGCCAAT GGACCTACTT CCAGGNGTG GNTCTCACA AACTTNITTC AGGGCCTTAC  
AACAAAAACC TACAA

SEQ ID NO:948: (Length of Sequence = 216 Nucleotides)

GGATGTAGC TOCCAGACAG ACATCTGGG AAGCTTOGGC ATCAACAGCA ACANTCAGTT GGCAGAGAAG GTCAGATTGC  
NCTTCNATA TGAAGAGGCT AAGAGAAGGT TCGCCACCT GAAGATCCAG CTGGCCAAGC TTGACAGTNA GGCCTGGCCT  
GGGGTGCTGG ACTCANAGAG GGACCGGNTG ATCCTTATCA ACGAGAAGGA GGAGCT

SEQ ID NO:949: (Length of Sequence = 369 Nucleotides)

CCCTTCCICA AAAGATAAAA ATCTCTGGCA GAAGAAATAG TTACCTGCTG CCATCCATCA GTACTGCAAT TACCATGACT  
CTAAGTGACC TTCTTGCCCA ATGTTTAATG CACAATGGAC CGTGCCGAGG GAGACCTGGG CATTNICTGT TGCTTTGTTC  
TACAATGATC CCTTCTGTTT TAGCAGCGTG ANTCACATGAT GGTCACTACT TCTGAGGACT GTACGCATTT TCACCTTATA  
TCCACCTGTA CCAGAAAACA TGGACATAAT TAAAGTTTA TTCTACTTA ATAGAGTGAT ATTCCAACCT GTGTGGGAAA  
ATAACCATIN GTCACTCTTT AAAGGAATGG TATTTAACAT TTATTIATA

SEQ ID NO:950: (Length of Sequence = 288 Nucleotides)

AATGGTGAAA TAGAAGTCCA ATTACCTGGG GAACTTCAT CTAACCCCTC TGAATTINC AGTCTAACCT AAATATTGAT  
ACTACACCTG CAGCAGCATT TAGTTTAGCA TGTAAGTAAA AAGTAAGTCT AAAAAATATT TNCATAATCT TTGGTTCTTA  
AAATTGTTTT AAAAGAGATG CAGTGACATA TGCTGGAGT TTGCTTATGG CCAATAGGT AATGCTTCTA GCTTCTATGC  
TTATTGCAA TTTTAATTAT GTGAATATGC AATTTTCACT TATATTG

SEQ ID NO:951: (Length of Sequence = 302 Nucleotides)

TGTACGATG TTACAAGAAC GATTCCGGGA GTTINCCGA NACACGGGA ACATTGGGCA GGAGCGGTG GACACGGTCA  
ATCACCTGGC AGATGAGCTC ATCAACTCTG GACATTGAGA TGCCGCCACC ATCGCTGAAT GGAAGGATGG CCTCAATGAA  
GCCTGGGCG ACCTCTGGN GCTCATGAC ACAAGAACAC AGATTCTTC CGCTTCTAT GAACTGCACA AGTTTTACCA  
CGATGCCAAG GAGATCTTTG GCGTATACA GGNCAACAC AAGAACTNC CTTGAGGAGC TT

SEQ ID NO:952: (Length of Sequence = 302 Nucleotides)

TTTTTTTINT CCACTTCACA GTTGATGCCA ACCCAGCCTG CATCACAGAG ACACTTATAT CCACTGAGAC CTCCAGTACA  
GTTTCATGG ATGCAGGGAT TGCNCAGCA TTGTTTACC TGTAAGTAGC AGCTGGGGTG ATGGGGTCCC TCGGGGCATA  
TACAGGGGAA ACCATTGACA CGTTGATAC ATGNGCACC CTTGCGACAG GGATTGGNGG CACACTCATC AATGTCAATG  
TTACATCTCT GGCCTGTGAA ATCCTGGTGA GCAGACACAA CTGTAGCGAT TAATTGCCAT CC

SEQ ID NO:953: (Length of Sequence = 301 Nucleotides)

GAAAAINAAC TTTGTTTGAA AAGTTAGTAT GGGTTAGAAA TGGGAAGAAA ATCTAAAATG TAAGAGTAAA AGCAAGGCCT  
TCTTGGCAIT CTCTTTTAAT ATGGGCTTIN CTGTGTTAGT TAACATCTGA TAATATGACC TCCAATCTA TTAATATTTA  
TTATACTCAT AAAATTACAG AAAAAACCTA AGAAAGGGTA TGTATTGAAG TGAATGAAT AAATGCAAAA AATGTAGTAC

TTATAACATT TTGAAGAAAA TCTTTAAAAA TMTTGTMTA CACAGAAAT AATCTTAGAA A

SEQ ID NO:954: (Length of Sequence = 217 Nucleotides)

AGAGCTTAAA AATAGTGAAG TCTTTATAAG TAATTTTAA AAATTTAAAC TAGGACCATA AATTTCATA CTATGAGATA  
AATGANCAAG AAAACAAACA GGTGTTTAGG AAAAGGTATG TATATGGTCA ATGAAATAAA TACAACGTGA TTTTAAATGA  
GANITAACAT ATTTTNNTTT AACAAAAGCA GCATGTAACA CACAATGTAT TATATGT

SEQ ID NO:955: (Length of Sequence = 260 Nucleotides)

TATTTGATAG AATTTCTAG TGAAACCATC CTGACTTGGG GTTTTATTTT GGAGGAATTT TAAGTTATTA ATTCCGTCTC  
CTTAATAGTG ATAGGACTAT TCAGATTACC TTATTTTATA TTTGGTGAGT TTTGGTAGCT TGTGTTTCTC AAGGAAGTGA  
TCCATTTTAT CTAGTTGCC AAATTTATGT GTGTATAATA ATTTGTAGTA TTCCNGTATT ATCCNTTGA TGTCTGTAGG  
GTCTCTAGTG ATATCCTATG

SEQ ID NO:956: (Length of Sequence = 216 Nucleotides)

CCCTATTAAA TCATTAGCA TTGCATGCAA TACTTTTNCCT GTGAAAATTA TTAACCTCCT GGTATATAAA ATTATTTCTA  
GTTATGTTTA AATATTTCCN CTGGGATATT ATCATCTTAG ATCTGTAAAG TGGTACTAAA ATAGTTAAAA ATTATTTNTA  
AGATATACAC AAACAGAAAA ATATAAAANC AAATGTATCT TATACATAGT ACTTGG

SEQ ID NO:957: (Length of Sequence = 353 Nucleotides)

TATGTACCAG GTGTGGAGCC TAGAACAGAC ACCAGTCAGA AGTGCAGATA AGGTCTGACT TTCCAGCATA GCCAGGGGAC  
TTGGCTGACT CCACATGTCC CCAGGCTTA CCTAGCTGTA AAGCAGGCAG GTTGTGAAGT CATAGTGGCA GTTTATGAAA  
TATTTAGGGG ACCTAATAAT CTTTAAATTG TATAACATTT CTGCATATA TTTCCTTTCA TGAATCCTTT CATGACTTAG  
ACCATCTATG ACATGCTTGG ACTTTCGAC TGTCTTAC CACCCCTCTC TTAAACAAC CAGTCTTTT ACTTTAGGAC  
AGAATTTAC CATACAAGAT TCTTTGTAT AAA

SEQ ID NO:958: (Length of Sequence = 410 Nucleotides)

AAGGAAATGA ATTTGATAGC AGATTGTTAG AGATTAAATTA CCTATCATAT GCCAAAGCCA CTTCCTACAT GTCAGTGCTA  
AGGAATCCCC TAGAGATGGA ATTCCTAGGT TCAACTGAAA ATTAATTGTA ATTAATATAA TAGGTTAATT CATTGTAAAT  
ATTTTAAAGC CTTTGGCAA TGAGTTAATT CCACAAGATC CACATTGCTT GAAGTGTAC AGAGAACACT TGATGAGAAT  
GTNCTAGTAA TAAACCTTAA CCTCTGGGG AAAAAATCCT ACTGTCTTTC CTCTGGCTT CGTTCTTCT GGAACATATT  
TNGGTGGCAT TTGGATATCT GGAGGACAAA GGGATCCCTA CAAGGTGNT GCATAACAT GCGTGGGCC AGATGGACTG  
TGCTCATTGG

SEQ ID NO:959: (Length of Sequence = 197 Nucleotides)

GCCCGGCGAC CGTAGCATCT TCTGGACCAC AAAATAGAAC ATTGCCAGGC AAGGCAGGC ATTTGGGGAA TTTNAGAGAA  
AGCAGGATGA GTGATGGAAT TGGGAGGGTG GCACAAGATG TTAACAGCA TATCTTAGTC CTCTCTAGG GTATAAAACA  
GGACCCATGG ACTCTAGCAT CCTGGAATGA CAGAGGG

SEQ ID NO:960: (Length of Sequence = 345 Nucleotides)

AATAAACTTC TGTTGTTTAA AGCCACCTAG TTGTGGTCAC TTGTTATGGC AGCTTTTGA AACCAACACA CCGCACATG  
GCGTGTAA CCGAGGCTGA TACAACCTTA AGAAAGGAAT GGTGTGTGTC ATCAGCAATC TCCAATACCT ACAGCAATG

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GGAAGACAGG GAAGGACCAG AGGTGTAGGT AAAGCAAAAA GCCACAGGTC ATTAGGAAGT GATGCTCCAA CTGGGCATGG  
 AAAAGGAGTT TGGAGTTAGG AACACGACAG ATCTGTCTGG ACAAGGNTCC AGATCTCTCC TAGGGGAAG NAGGGGCAAC  
 TTAGGACACT TTTGTGTCT GTGGG

SEQ ID NO:961: (Length of Sequence = 327 Nucleotides)

GCTGAAGAGG AACATGTGTC CTCGGCCACT TCAATCACTG AGTGTGACAA ACTTCTCTCC TTTGCCACAT CAGTGGGTGA  
 GGACCAATCT NTGGCCTCAC TTACAGCTCC CCAGACAGAG GAGACAGGCA AGAGCTCCCT GCTGCTTGAC ACAGTCACAA  
 GCATCCCTTC CTCCGTA CT GAAGCTACGC AGGGCTTGA CTATGTGCA TCAGCTGGTA CCATCTCACC CACCTCTCA  
 CTGGAAGAAG ACAAGGGCTT CAAATCACCA CCTGTGAGG ACTTCTCTGT GACTTGGGAG TCAGAGAAGA GAGGAGAGAT  
 CATAGGG

SEQ ID NO:962: (Length of Sequence = 369 Nucleotides)

AATTTAGATT TGCAAGTTTT CTACATTTTC AAAAACAAAA AACAAAAAA CAAAAACAA ACAACAAGAA ACGTAGACTA  
 GTTGGGCTCT GTCATGCCCA GGACATGAAT CAGCCCTCA TCAGCTTCT CTGACCATTG GTCATTAGT GGTCTTCTTG  
 GTTTTCAGAT AGCAAGAAGG GTGATTACAG CACGATATTT TGACAGAGAC CACATTACCA TAGCTTTTAT TAGTTATTGG  
 TTGCTGTAA TCTCTCACTG TNCCTTGTTA AGCTTTATCA TGGTATCAC GTAGAGGGAA AAAGCCACGG TATAGATATG  
 TAGGGTTCCA TACTATCCAG TCTCAGGGCA TCCACTGAGG GGTCTTCTG

SEQ ID NO:963: (Length of Sequence = 278 Nucleotides)

CTCAAACACC CGAGGCGGG AGGAAAGAGA AGCCGATGCT TCAGAGCAGA CACTCCTTAG ATGGCTCCAA ACTTACAGAG  
 AAAGTGGAAA CTGCTCAGCC GCTGTGGATA ACGTTAGCAC TGCAAAAGCA AAAGGGGTTT CGGGAGCAGC AGGCGACCG  
 GGAGGAGAGA AAGCAAGCCA GAGAGGCCAA ACAGGCAGAA AAGCTCTCCA AAGAAATTN GAGATCTCCG ACTCGGCTCC  
 CCCAGCGCG CTGGTAAAAG AAGTCACCAA GAGGTTTT

SEQ ID NO:964: (Length of Sequence = 349 Nucleotides)

ACACTCTCAG TATAGACAGT CGTGAAGAAC AAGGCTGAGG GATTITNAAG TAAACCCATT TTCAGGATGA CTACAATCCT  
 TCCACTTCTA GAAACTTAG AAGTACAAGA AATAGCTCTA CTACGGGTAA CTGATTAAAC AATTTCCCAA ACACCCCTTC  
 CACTACCCAA GCCCGTGGCC CTCAGAGAGA ACCGGGATGG ATTGCCATCT GGGTTCAGAG GCAATATGAG GAGGTTGGGG  
 GGATGGCAGG GGCATCTCA GGGTTGGGG GCAGGCCAAG GGGATGAGAT GGCAAGGAC AGCTTTNGGA ATCAGATAGA  
 CGATCCAGCG TGCCTTCTA CACTTGCA

SEQ ID NO:965: (Length of Sequence = 361 Nucleotides)

AGCAGCAAGC CAGACGTGAC TGTAGGAAC AAGCTAAAT AGCTGTGGAA GCTCAGAATA AGTATGAGAG AGANTTGATG  
 CTGATGCTG CTGATGTGA AGCTCTACAA GCTGCGAAG AGCAGGTTTC AAAATGGCA TCAGTCCGTC AGCATTGGA  
 AGAAACAACA CAGAAAGCAG AATCACAGTT GTTGAGTGT AAAGCATCTT GGGAGGAAAG AGAGAGAATG TTAAAGGATG  
 AAGTTTCCAA ATGTGTATGT CGCTGTGAAG ATCTGGAGAA ACAAAACAGA TTACTTCATG ATCAGATCGA AAAATTAAGT  
 GACAAGGTCG TTGCCTCTGT GAAGGAAGGT GTACAAGGTC C

SEQ ID NO:966: (Length of Sequence = 163 Nucleotides)

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CTGCTCTCTG GGTTCAGCG ATTCTINATGC TTCAGCCTCC CAAGTAGCTG GGATTACAGG CATGTGCCAC CATGCCAGT  
TAATTTTGT ATTTINAGTG GAGATGGGT TTGCGCCTGT TGACCAGATT GGTCTTGAAC TCGTGGCTC AAGTGATCCA  
CCT

SEQ ID NO:967: (Length of Sequence = 365 Nucleotides)

GIGTCAGTAA TATGTTGTAC ATATTATINC ATCACCAGG TGTTAAGCCC AGTINCCAAT AGTTACCTTT NCTGCTCCTC  
TCCCTCTCT CACCCCTCTG CTCAAGTCT ACCCNGTGT TTTCTCTTT GIGTCTTAA GINCTTATCA TTTAGCTCCC  
ACTTGTAACT GAGAACATGC AGTATTTGGT TTTCTGTTC TTTGTAGTT TACTAAGGAT AATAGCCTCC AGCTCCATCC  
ATGTTCCAC AAAAGTCATG ATCTCATCT TTTTATGGC TGCTAGTAT TCTGTGGTGT ATATGTACCA CATTTCTTT  
ATCCAATCTG TCATTGATGG GGCATTTAGG GTTGATTCCC TGCT

SEQ ID NO:968: (Length of Sequence = 390 Nucleotides)

GTGTATAGTA ATTTAATAGT AATTAAATGT AGAGTATTTG TAAAAACAAG GAGAGGAAAA AGAACAATTC ATATTGAGA  
ACTCTAATA ATCTCTAGA GCAGATTC AAGAAGCAGT GGTAAAAATA AAGCCAAAGA GATATAGGGG CTAGTCTTAG  
AACCAGGACT TCTATAGAA CCAGCTTCT ATAGAATCTG AACCTTATCT GAACTCTTT CACAGATCTC CTCACCTTA  
ACTTCCACAA AATAAGAAAT TTGGATTTG AAGGCAAT TGTATATTTT AAGGAGCAGG ACAATCTCAG CTGTATCTGG  
GTTTCAGAT ATCCAACAA TCTACCCAA ATCACTTTTC CAGCTGCAGA CTGGAATTT CAGATCCAGG

SEQ ID NO:969: (Length of Sequence = 340 Nucleotides)

CAGACAGAAA AAGATTGAA GAGACGGTTC AGGAAGTAGC GGAATTACTG GAGGAAGAAA AACTAAGTTG TGTGCCAGT  
CTCATCTTG CTAAATAGCA GGATTTGCTC ACAGCAGCCC CTGCTCTGA AATTGCAGAA GGACTGAACC TGCTATCCAT  
CCGGACCGA GTCTGGCAGA TCCAGTCTG CTGAGCTCTC ACAGGAGAGG GGTTCAGGA TGGCATGAAC TGGGTCTGCA  
AAAATGTCAA TGCAAGAGG AATAAAATC TAGACGAATG GAGATGCAGG AGCTTGGGA GCGAATCTG GGCCTTAAAA  
ACACTAATTT GCTGCTTCT

SEQ ID NO:970: (Length of Sequence = 372 Nucleotides)

TTTTAAGATG GATCTCAG GTTACCCAGG CTGGAGTGCA GTAGTGCTC ATAGCTCACT GTGGCTCAA ACTCTGAAC  
TCAACATATC CTCTGCTC AGCTCCCAA ATAGCTGGGA CTGAGGCAC ATGCCACCAT GCTGGCTAA TTTTAAAT  
ATTTGTAGA GATGGGTCT CACTTTGTG CACAGGCTGT TTGCTGATT CTAAAGAAC TATAGGGATC CAGCTGTACA  
GAGCTTCTG CAGTCTTTG TAATAGAAAT AGTTGTAAA ATTGTACTTA TTACATGAGG CATCAAAGAC CTGGAATAA  
AGCTATNCC TCACATATCT GGGCAATTAT TTTGGACTTA CTATGGTAC CG

SEQ ID NO:971: (Length of Sequence = 337 Nucleotides)

GACTATAGAG AAGCTGAAG TTTGAATAA AAGACTCTAG GGTGAGCTC ATCAGTGCTT GCTTTGGNTC CAAGATGTA  
TGAGATTCTN CTTTCACTC AACAATTGCC GCAATNCTT TCACCTGAGT GGAGCTCGA GCACCCAGTC TCTCTGATA  
TAACAAAAC AAATTTGAAT CAAAAGGTA GATGTTGAGA GTCTGTGTTG TTCTGCAGCT CAGGCTGTG AAGTTGTGC  
TAGTCATGTC CACTTCTGGA AAGAGGATAC CTGNTCTCT CAATGTGAGG GAACGGGAGC TTNGGGGCAT CAACCTACA  
TTTTCTCTC AAGGGGA

SEQ ID NO:972: (Length of Sequence = 396 Nucleotides)

TTCTTTACA TCAATATCC TCAATGGAAG AGGGGATATT GCACACAAAT ATCATAAAG CACTACATAT TACTTTCAT  
GGAACTAAT TTCTACAT AGATATGACT GGATAGGATA GAAGTGATGC AGGATTATAA GACATAATAC CATAACAGC

TGCAGACTGA CACAAACACC ATTCAGAACA AGAGAGAGGA GTGTGAAGTG CTTCTCAGCT GGGCTCAAGA CCACTTCTTT  
CCAGTGCTGG AAAGAGGGGC TGCATGCAGT GTAGGAAAAG CGTGTCTCTG AACTGCCACA GGTGTCTCTC GAAAGGGCAG  
CCCGGTCTTG ATGCCACTTC TCCATGGCTC CTGTTTTTGG GGGAGCTCCA AACAAAGTGA GAGAAGCTGC CTATTT

SEQ ID NO:973: (Length of Sequence = 401 Nucleotides)

TTCTCAAAC TCCAGTTCTC TTCTGGGCC AAGATCTGGT CCACCACTGC CGTGGCCTCC TTCCCTGGC GGATGT TC  
COGCTCCTGA GCAGAGAAAC TTTCTTCCC AGCAACTTCT TCATCTGATG GGAGGAGGGA ACTGAATAGC TTTCC  
GGGAGATAAG AAAGAAGAGT GTGTGTGAA CAGGGAGCTT TGAGCTGTGG AGTTGGGCTG GGCATGGAAA ATNCGGAGGA  
GAGTAGCAAG GAATGAGGGG CTTGAGAGAA CTCTNGGATC AGCCCTCCCA CACTCACTGC CCTTTAAGGT ATCTTTGGGG  
AAAA AGGG GCTTCTATGA TGAGTCTGGC AGCTNCCAC ACTGCATTCT CCTCTGCAT TTTTTTACCA TGCACCAGGG  
C

SEQ ID NO:974: (Length of Sequence = 371 Nucleotides)

TTTACAAATG AACCACTGAG CACCTCAGTA CTTAGCTCAT ACCTCATACC TTAGTTCTTT AGTACTTAGC CTTGTGCCAT  
CTTGAATGAG ATGGAGTGAA GTGAAGCTCG AAGGAGTGAC AGAGACATAG TCCTTGCTCT CAAGGGGTCT TTAGCCTGGT  
CTGGGGGACA AGATTTCTC ATCTACCTCT TGAAAGGTGG CAGGACAACT CCACACTGGA GTGTCTCAC CAGCAGATAG  
GTGCTGGGG AGTGTGGGC CACATTCTTT ATAGCCACAG GCTTTCTGGG GACTTNCCT GGGGTCTTC CCTATTGGC  
TGGGTGGACC ATAAGCGGCA AGTGAATGTG GCAAACTTCA ATTCACAATT AA

SEQ ID NO:975: (Length of Sequence = 340 Nucleotides)

GACAACAGAA AAAGAAGTGG ACAGCTACCC TAGATTCTAG CTCACACATA ATTCAGCCAG ATAATCATCA TTTAAATAAT  
ACCCCTTGAA ATTTTTCAGA CTTTTCACAG CTCTAAAAC ACAACATCAG ACATAACATC ACACATTTGT TCCAAAGGAC  
TAAAAATCAA AAGCAATTGC AAGTATTGG GAATCACTTT TATGGCTTTC CTAAGGGACA GTCCCATCT TTTCAAGGAG  
TGTTTTTAAA GAAGCACTAA CTCGTGTAGG TTATCAAACT ATTTTNNAT TCTAAATAAA TAAAAGACTA ACTGAAGTIC  
TCAGGTGCAC ACTTATTTTT

SEQ ID NO:976: (Length of Sequence = 343 Nucleotides)

CTGTCCCTA AATATTATTA AATTTTAAA AATTAGACAT TTGGTCTAAA TTAGACAGGT AAGATACTAC TGTCTTACT  
AGATGCTTTA AAGTCATAAA CTGCTTCTAT GGCTTTTAT AATTGTNCAA CTGTCTGCT TTAGAGCCAT TGGATTCTAG  
GTAAGGCCTA GAGACATTG GAGTAGCCA TGTCCCTAG CTATGCTAGA AAGAGTCCA CATTATCTGT GGTCTGTCC  
TGTATCTTAC ACTCTACACC TGATACATAA TTAAATTTAC TTACTATAA AATAAAATG GATGCATTTT TTAGGTAGGA  
AGGGTATGG AAATTATAGG TTT

SEQ ID NO:977: (Length of Sequence = 265 Nucleotides)

ATCTTTGTAA TATCAGTGCC TAGACTAAGC CTGGCGTATA ATAGGCACTC AGAGATTGA AGAATAAATG ACTAAATGAC  
TGTATCAAACT ACTTGCCCAT TGTGTCTGT TCTGTANITG TACAAGGCA TCATGATAAT TGATGATCTT AATAATGTGA  
GAATATGATT CINTTACCTT AGTAAGAGAG CCATCAGTTT ATTGGATGAT AGTTATATGG AAAAAGAAGA AATGCTACTG  
TGATAAATAT TTATAATTTT AAACA

SEQ ID NO:978: (Length of Sequence = 285 Nucleotides)

ATGGTGGGCT GCCCTGGCCG AGGTGGCCAA GATGGCACCT GTTCTCTGCC TCANAAGAAA AGGCACTGAC GCACTGACCC  
TTTAAAGTTG TTGGGGTGT GGTCACTGCC CTCCGCTG AGGTCTAGT GTTTTCTA GTCACCTCA GCACACCTTA

TTTAACCATTT TTTTNTTCCC TTAAAAA AAAACCCAAA AAACCAAATC CCAATAAATA TGTATTTTTT NTCCATCACA  
ATATTGCTTT AGAAAAATAA GAGCGTCAA GCAGCAATTT TTCCT

SEQ ID NO:979: (Length of Sequence = 316 Nucleotides)

GTGOGTNCAC ACTCTCCTCC TGCTCCCAA ACTCCTCATC ATTGAAGCCG AAGTGGTCAA TGAAGGCAGA GGTGATGGC  
TGCATCTGGA AGTCCATGAA GGCTGCTGC AGCACAGCCT CCTCAGGGAA GTTGAACCTC TTGAGCCGGT CGTCTCATC  
GTCACTGGAG GAGTGTAGGT GGTGGGTGTT CACCAGGTCC ACCATGTTCT TCTTGTGGT CTCCGCCAGG GGCCCCGATA  
CGAAGGCTTC CCACTGCTCC TGCTGCTGC TGGGCAGCTC CTTCAGCAGC TTGCGCAGC TGCTCTGCAA TTGGGG

SEQ ID NO:980: (Length of Sequence = 386 Nucleotides)

AAACTGGCTT GCCTTCATCA TCTCTGCAGG GNTCAGTAA GATTAGAAAT GGATTATTTA CCTTGTATA CAAATACACC  
TCCTCCCTAC ACCCAAGANT TGAGAGGAAG ATGAGCTGTT CCTGTGTAA GCCTGANTC AATCCCAITA TCTGCATTTT  
TGTGTGTGGT TAGCGCTCCA GCAGCCTAAG GCGGAGCTG GAAATGACAG CCTTGGAGAC GAGGAAGGCT CCAGGGAGGA  
CGGAGAGGAA CACCTGCTGA AGAATAAGAC GGGCGGCACC AGCCGGCTG ATTTTGGGGA ACGGAAGGTA ACAGAGGGTG  
ATGCTTCTAA TGCTTTTAC AAGGTCTTGG AAAGACGGGA TNGCCTTAAC CAACTTGGGG TTCTTT

SEQ ID NO:981: (Length of Sequence = 322 Nucleotides)

GTTTATTAAAT ATTAAACAT ATTAAATAA TACATGTNCA TAATGAAAT GAAACATTAC AAATAAATAC ACAGGAAAGG  
CAGTATTCCC CTCCAGTTC CACTCTTGA ATAACCAGTT AACAGATGA TGAACATCTT TCCATGATGT TCTCCAAGAT  
TCATATTATT TTGCAATCA TACAATGGCA TATCAGCTC AGGTGGGGTG GCTCAGCAA GTAAATCCA GCATTTTGGG  
AGGCTGAGGC GGGTGGTCA CTTGAGATCA AGAGTTCAG GCCAGCTGA CCAACATGAA GAAACCCTGT CTCTTACTAA  
AA

SEQ ID NO:982: (Length of Sequence = 305 Nucleotides)

CCCAAGGCTG TAGTTCAGCA TCAACAGGGC AGGGAGCTTG GCAGGCAAG GGCAGAGCTG GAGATCATGC CCAGTNTTCC  
AGGTGCCCTC CCTCCCAATC AGCCTGGGG GCACAGGACA GGGATGGAGA AGGGGCTCTC TCCATGGCTT GGTAAACATG  
CCAAAGGCAG GTCATAGGGC AGACTCAGTG GGGGTGGGG CCTGGCTAAC AAGCAATGGA GAGAAGGGG GCCATCCAGA  
GAGGTGGCA GAAGAGAGCC CTTGGGTCAA GAGAAACTT TGGGGAAGAC AAGACAGGG AGAAG

SEQ ID NO:983: (Length of Sequence = 399 Nucleotides)

AGCCCTTGTT TTGTTTTTAA AAGCTGTGTT GTTACTGCTT AAAGTCTCCA AACTGTTATT GAGAACACTG ACCAGAGCCC  
TGTCCATAGA CCAGTGTITT TCCAAGTGCA GATTGCAACT CCTTTCAGAG GTAGGTGTG GAGCCATTIN AGCTGACTAC  
TCACCAGCTT TCTTCAAAAT GTAAATGGAA TAGGATAGAA AAATAATGAA AAATTGTAAA GTGAATTGGA TGCAAAAAGG  
GTAAATATTG TNGTGTGAGA CTMTTTTGGG TGAGTGTGCA TGTGTTCACA TACTGENTCA CATATAACA TGTATTGCTC  
ATTATGGGTT GTGGTCAGAA AAAATTGAGN AAACGCTGTC TCAGACTGTC CCCAAGTTGT ATTTGCTTAT AATGGGACT

SEQ ID NO:984: (Length of Sequence = 408 Nucleotides)

GTGGTATGAG GTATCAATGA AATACATTTA AGATGTACAT TGGTTTGT TT CAGAAAGGCG AGACAAGTCA AAGCGGGGAC  
TTCCAGGCTA TAGGTAAAT TATACATTTC CTGGTTAAGA TTGGTTGAGT TTGTCTAAGG ACCTGGGATC AACAGAGAGG  
AAATGTTTGG NTAAAGACAA GGATTGTGGA GACCAAGTT TACTACGCA GAGGATCTC TTAGCTAGCA GGCATAAGAC  
AGAAGAGGCT GTAAATGTT TTCTATGAG ACTGAAAAGG GTGCTGACT CTTAATTGAT TATCTCCTGG NTCTGGAAAG



AAAAAAAAA GGAATGGCC AGGTGCGGTG GCTCAGGACG GGTCGGTGG CTCACACCTG TAATCTTTCT TAAAACGTTA  
TGAAGTTC

SEQ ID NO:985: (Length of Sequence = 439 Nucleotides)

TGGTATACCT TTGINTTTT TTCTACTGT TAGTTGTATT AGTATCAAAT GGCATAATAA AGTTACTTTG TTGCCATTT  
CCCACTCATC TGAAAATCAC AAAAAGCATT TATTTCTAAG ATTTATATCC ACTGACCTTT TCCCCAAGT TATTTCTCTG  
TTACTTGTAT TTCACTTTG CCTTATTTT TTTAATATTT GTATTAGAAT TAGCTTGCTC TTGTTTCTTT CACGGCAAAT  
GTGTTACATT GCCCACTGGG TGGCTTCTGC GGATGCCCCC ACCCACCCCT CGTCTGGAGC AGAGAAGTCC TGTTAGCCTA  
GCAGCATAGT GGCTGCTGTC AGTGGGAGGA GTTGTGCTTC TCTAGCATGG TCTGTGATGT CATCTGGACA TAATTAATTA  
GACTAATCCG AATAGAGGAC CAAGACAGCC CTGCTGCG

SEQ ID NO:986: (Length of Sequence = 286 Nucleotides)

CGCGACGAA CATGGAGAT CCAGCTTG GAGCGCAAGT CCTCTGCGG GAAGAAGTGT CGCGGCTCCA GGAGGAAGTT  
CACCTTCTCC GGCAGATC AGATGTTG GCGAAGGACC TGGAGGAGTC GCAGGGCGGC AAGTCTCTCN AGGTCTCTC  
GGCCACCGAG CTCAGGGT CTGGCCCA GAAGGAGCAG GAGCTAGCCA GAGCCAAAGA AGCCTTNCAG GGCATGAAAG  
CTGATCGGAA GCGCTTAT CGAGAAGA CAGACCTGGT GAGCCA

SEQ ID NO:987: (Length of Sequence = 381 Nucleotides)

TCCAAAGGTT TTCACTCT TGGATAA ACAAAC TG GTACATCTAC ACATGGAAT TTGGGA GATGAAACAG  
AATGINTGAG GGCCAC CATGTAT GGTC TG GTCTGCCTCC CA TTTCCA CAGGCA G TGTGCT  
GGGTGAGGG CTGGGAG GGCAGGAG CATC AAC AAGGGTGGAA GC GAAGA CGACCAG TTTACAGGGT  
GTNTCACATG GTACAACCA GAGACTTGGC GTGCTAGAA CCAAGAAAC ACTCAGGACA CACGACAT CTGCAGGGAA  
CCTGGGGGGT GGTGAGGAAA GTCGTGCAAG GTGCTTGGG GGGAGACTTG GAGGCCCTC T

SEQ ID NO:988: (Length of Sequence = 381 Nucleotides)

GAATTAATAC CAATAGAAGG GCAATGCTTT TAGATTAAAA TGAAGGTGAC TTAAACAGCT TAAAGTTTAG TTAAAAAGTT  
GTAGGTGATT AAAATAATTT GAAGGCGATC TTTTAAAAAG AGATTAAACC GAAGTGANIT AAAAGACCTT GAAATCCATG  
ACGCAGGGAG AATTGCGTCA TTTAAAGCCT AGTTAACGCA TTTCNTAAC GCAGACGAAA ATGGAAAGAT TAATTGGGAG  
TGGTAGGATG AAACAATTG GAGAAGATAG AAGTTTGAAG TGGAAAACCTG GAAGACAGAA GTACGGGGANG GCTCTCTCA  
TGTTTACAAT TTTAATTAAT TTTTITTTT TTAGNGTAA TTTCTTACCA AACATTACCC A

SEQ ID NO:989: (Length of Sequence = 432 Nucleotides)

GTCTTGGGCT CTGCAACCT CTGCCTCTG GGTCAAGCG ATTCCCCTGC CTTAGTACC CAAGTAGCTA AGAT  
CATGCGGCT ATGCCTGGC TAATATATAT ATATATTTT NTAGTTTTA GTAGAACGG GTTTTCACCA CGTT  
GCTGGTCTCG AACTCCAGAC CTCAAATGAT CTGCCCGCT TGGCTTCCA AAGTGTGGG ATTACAGGCA TTAGCCACTG  
TGCTTGGCCA ACAATATATA TTTAATAAGC ACACATACAA CAAAGTAGG TGTGTGTAAG CTTACAAAAA TGTGACCAAT  
AGCTTGCTGA AACCTAAGTT TTTATTTGTT CATGGAACCT TCTAGACCGT AACTACACTG AATAATGAGA ATCTGCTGTA  
ATCTTTTTTA GGTGCTGTAG ATGAGCCATT GG

SEQ ID NO:990: (Length of Sequence = 421 Nucleotides)

GGCAGCCCTA CTTTINCTC TCATTAGCAG TTTCACTCCA CAGCTGGGGT ATTAAATTTG TNAGTCATTG AAATTAATCC  
CTGACTGAAT TGGAAAGGAA TTGTATTTGC AGTATTGGA TTTATTTATT TNCAGGTAT GGAATTCGG TGATTTTGA

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AACATGAATG ATACCATTTT GCAGCAGCAT TGTAGATTTG TAGTATTTTA GATTGGTATC ACAGTGCACC TGAAAAGTAA  
 GTTTCATTTT ACTTTTPTNA TTGTTGTGA GACGGAGCTC ACTTTTGTCA CCCAGGCTGG AGTGCAGTGG TGTGATCTTG  
 GCTCATGGCA GCCTCTGCCT CGCTGGGTTT AAGCGATTCT OCTGCCTCAG CCTCCCGAGT AGCTAGGACT ATAGATGCTC  
 GCCACCATGC CCAGCTAATT T

SEQ ID NO:991: (Length of Sequence = 351 Nucleotides)

CCTCACTCCC CGCGCTGGCA CTCAGGTTT ACAAGAAGAA CTAGGAAATA ATGCCGGCCA CGCGACCCCT GGAGAGGGGG  
 CCGGCTAGAA CAGCGTTCTT AAGAATCCGC GCCACAGCAG GTCCCGCGAT GTTGGGGCCT TAGTGTCTATC GAGCTAGCCC  
 CAATCCTCAA CCCGATCTTC AACTTCTGGT AGTCTTAAACA GAAGTCTCGT ATTGAACCAG CCACINTGGC CAGGGAGAAG  
 TAATCCTCTG ATAGTTGAGG TTCTTNTCTC TCCTCTGGAG CAGATAGTGG TGTCTCTCC CCACAAAGCT CATGTTCTGC  
 TGAAGAAAT GGAGATGGCG CCTGGAAGG C

SEQ ID NO:992: (Length of Sequence = 406 Nucleotides)

CCAGAAAAA TGGCCACTAC TACCCTTGG CTCAGAAATG CTAGTCTTTA TTINCTGAAA TGTTTTATAT AGAAAAAATT  
 TAATAATAAA TAGACATTCT TATATATTTC CTTACCATTT NAGATGGGT TAAAAAGTAT GNGACTTCC GGCGGGTGC  
 GGTGATTCAA GCCTGCAATC CCAGCACTTT GGGAGGCGGA GGCAGACAGA TCATGAGGTC GGGATCTGTG GCTAACACAG  
 TGAAACCCCG TCTCTATTA AANTACAAA GGAATTCCTG CAGCCCGGG GATCCACTAG TTCTAGAGCG GCGCCACCG  
 CGGTGGAGCT CCAGCTTTTG TTCCCTTTAA GTGAGGGGTT AATTTCAGC TTGGGTAA TCATGGTCAT AGCTGTTTCC  
 CGTGTG

SEQ ID NO:993: (Length of Sequence = 381 Nucleotides)

ATGGAAGGAC CGTGCCGGGA CCCCAACGAG GCANTGCGG AGTTTGCCAA GGAAATTGAC ATCTCCTGTG TCAAAATTGA  
 GCAGGTGATC GGAGCAGGGG AGTTTNGGA GGTCTGCAGT GGCCACCTGA AGCTGCCAGG CAAGAGAGAG ATCTTTINTG  
 CCATCAAGAC GCTCAAGTGG GGCTACCGG AGAAGCAGCG CCGGACTTC CTGAGCGAAG CTCCATCATG GGCCAGTTGG  
 ACCATCCCAA CGTCATCCAC CTGGAGGGTG TGTGACCAA GAGCACACCT GINATGATCA TCACGAGTT CATGAGAAT  
 GGCTNCTGG GACTCCCTTT CTCCGGCAA AACGATGGGC AGTTTCACAG TTCATCCAGC T

SEQ ID NO:994: (Length of Sequence = 384 Nucleotides)

GTTCITCCAG TTGGGAAGGA TAAATCAAA TTCCACTTT CTGGGGTGA TGCCCAAAC CTTCACAACT CAAGTGTCT  
 CCAAGTGCAA ATGTCAAAAT GGGAGGAGGA AAGGGTTTAA AAATTAGAGA AAAGTGTATG CACTTACGGA CTAAAAATC  
 CGAAAAACAT AGTAAAAAGA CAAAAACA TAGCATATG CTCGAAATC ACAACCAAAG CCAAAATAAA AGGGACATTT  
 TTCACCTAAA CTACCTAGAG GGATTTTTTG TTTAGTTTTT CTTTTTCTT TTTTTTTTCA TTTCCAGTT AAGTCTATG  
 TCTTNGTGA AATTCCAATA CTTAACTGC AAGTCTGCAA TGTCTCTGA AGTCAGTGAA ATTA

SEQ ID NO:995: (Length of Sequence = 386 Nucleotides)

ATAACTTTAA CAGAGGATG GAATAATGAG GGAITGGCAA GGAAGCAGTA AAAGGGAACA CTAAAGTATA GAATAATAGC  
 AAACAGAAGG AGCACCTTAC CCTAGGGCT GAGAAAGAGC ACAGGAAGT CCTTTTTTNT TCCTGGACAG AGATCCAGAC  
 GAGCTGGAGA AAGAAGTTGC TATGGTACTG CATCANITGA ACTTGCTGGA AATCCACCT CAAGGGCACT AGGAAAACCT  
 GTTCAGGGGA GCTGTGGAGG GAAATGGGGT TGGCAGGAAA GCTGCTGGGC GCGGGGTGCT TCAGACTGCA GTGTATTGCA  
 GGAGCTTGGG CACTGGGGAA GCTGTGTGCA CTGCAGGATC CTGCTGAGCC AGCATCATG ATCAGG

SEQ ID NO:996: (Length of Sequence = 307 Nucleotides)

GTGCGCCAAC TGCAAGAAGG AGGCCATCTT TTACTGCTGT TGGAAACACCA GCTACTGTNA CTACCCCTGC CAGCAAGCCC  
ACTGGCCTGA GCACATGAAG TCCTGCACCC AGTCAGCTAC TGCTCTCAG CAGGAAGCGG ATGCTGAGGT GAACACAGAA  
ACACTAAATA AGTCTCTCCA GGGGAGCTCC TCGAGCACAC AATCAGCACC TTCAGAAACG GCCAGCGCCT CCAAAGAGAA  
GGAGACGTCA GCTGAGAAAA GCAAGGAGAG TGGCTCGACC CTGACCTTT CTGGCTCCAG AGAGACG

SEQ ID NO:997: (Length of Sequence = 402 Nucleotides)

TCGACACCTA ATACTGAGGG TGTGAAATCT TCCTCAGTAA TGCCAGGCC TAGTACCACA TTAGCGGGC AAGGCAGTCT  
GGAGTCACCG TCGTCGGTGA CGNGCAGCAT GGGCAGTGCT GGTGGGCTAA GCGGCANAGC AGCCCTCTCT TCAATAAACC  
CTCAGACTTA ACTACAGATG TTATAAGCTT AAGTCACTCG TTGGCCTCCA GCCCAGCATC GGTTCAGTCT TTCACATCAG  
GTGGTCTCGT GTGGGCTGCC AATATGAGCA GTTCTCTGC AGGCAGCAAG GATACTCCGA GCTACCAGTC CATGACTAGC  
CTCCACACGA GCTTCTGAGT CCATTGACCT CCCCCTCAGC CATCATGGCT CCTTTGINTT GGACTGACCA CAGGCACTCA  
CG

SEQ ID NO:998: (Length of Sequence = 304 Nucleotides)

GCAGGCTGT GATTGTNAAG ACTCACAACC ATGTGGAGAG GCCGAATCAC GCAGGAGAGC CAGCATTGG AGTACCTGG  
CTCCAGCCC CTCCCCACC CGGINTGAG CCAGAGAGCT ACAAGCAGGA ATCCAGTGC AGCTGCAAAT NATGGCCATC  
GAGGAAGTCT GTGGAGAAGA GGCTGGGGG TGTTGGTCTG AGGGGGGCTA GGCTCAGCAC GGGACCACCT GACGACAGCT  
CCCAGCCAGT CCATGCTGTC CAGGTGGCCA TCAAGCCAGG TTCCAGGGCC CATGGGTGCT TGCT

SEQ ID NO:999: (Length of Sequence = 321 Nucleotides)

AGAATGGTTT TGGAGCTGA NATCTTCATG GGTTAGACTT GCTGGTCAGA CCCAGGAGCA CCTGTGGCTC ACACCTTCTG  
TCCCCCTCT GGCTGTGCA GAATGTAAAC AGCAGACTCA TACTCAATGG GCACTACAGG CCTTATCAGA CGTTTTATAC  
AAGCCTGGAT TGCTTAGTAG GGAATAAGG CATTCTCTGA GGGGGCTTTC CACTTAGATT GAGAATTTTA TTTGAAAAGA  
ATCTGGTTTA AATGGCATTC TGGTCCGAGG TAGCTGCTCT CCCCAGTGA AGCTGAGCCG AAATATAAGA ATAATATATT  
T

SEQ ID NO:1000: (Length of Sequence = 253 Nucleotides)

CCCTAGAGGA TTGCGCTCT TINATCTGCC AGTGACCTGA ACCACGAGA TTTTCAAGC AGGAGGGCCG ATTGGGCAAC  
CACAGTCCC GTGCTCTCTC TTGTCAGTGC GGGGCTTCC CTCCGAGAAG GACTTTGAGG ACTACATTAG GTACGACAAC  
TGCTCGTCCA GCGTCTGGC CGCGTGGTC TTGAGCACC CCTTCAACCA CAGCAAGGAG CCCCTGCCG TGGCGGTGAG  
ACGTGCGGCC GGG

SEQ ID NO:1001: (Length of Sequence = 164 Nucleotides)

AAACAGAGTA CTGGGATGTC ACTGTGGAA AGTGCTCACA ATTTCTCATC TAAGCCGAAG TTGCTGTGNC TCCTTCCTAC  
CTTAACAGTT TCTCACTGCC TGAAGGCAGC TGCCAAAACC CCTCTAAGCA AGCAGCACTC TTACCCACCA AAATCTATGA  
CCTC

SEQ ID NO:1002: (Length of Sequence = 262 Nucleotides)

ATATCTTCT GAGGGAAAGT GTTAGAGTTA AAGAGGGCAT AGAGAGGCA CTCATGCATT TACAACCTAG AATTTTAAAA  
AAAGTTTACA TTTGTCAAT TGTACTTCAG ATGAATTTC TTATTAAAG AAATAAGGCC ACAGAGGTAA ACTTAAGTCT

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CCGTGTTTCCC AATGCCTACC CTCCTTCTTC TCCTTCTCTC TTCTCTTTTC CTAGAGAAAT CCTGCCTTCC TTCCCTTCC  
CAGAGGCAAC TGGCATTATA AT

SEQ ID NO:1003: (Length of Sequence = 267 Nucleotides)

GGAAAGAGGA GCAGGTCTGG AGGTTTGTGG AACCCAGTCC CCTGCAGAAT CTGTAAAACC TAATAAATCA TGGTGTGGC  
CATTCTCAGG GTGGTGATTG TAATTAGACG ACCCCCGGGA AGCCCAAGCA CTCGGGGCCT GGAGTTCTTC CCCCTGCCTG  
ACCTAGAAGC AGAACCGTTT TCAGCGTCTT GCCCTGTGG CTTTAAGGCT TTGTCTTAAT TTAAGGAAAA AGATCCTCCC  
GGGTTTTATT TCCTCTTTTC TTGAGTG

SEQ ID NO:1004: (Length of Sequence = 277 Nucleotides)

GGCTCCTAAA CACTTTCTTC CTGAGATGTT AAGCAAAGTA ATCATCTGT CACTAGATAG AAGCGATGAA GATAAAGAAA  
AAGCAAGTNC TTGATCAGT TTAATCAAAC AGGAAGGGAT AGCCCAAGT GACAACTTCA TGCAGGCTTT CCTGAATGTN  
TTGGACCACT GTCCCAAAC GGAGGTGAC ATCCCTTTGG TGAAATCCTA TTINGCACAG TTTCAGCTC GTGCCATCAT  
TTCAGAGCTN GGTGAGCATT TCAGAACTAG CTCACCC

SEQ ID NO:1005: (Length of Sequence = 271 Nucleotides)

GTTAGGTCAT TCACACATGG TGGAGACAGG AATCTACAGA CTAGGGATCA GCCCCAAGGC TATGATCTTT GINCTGCGCC  
GCTCTACCCC TGAGCAGACG GGCCAGAGGT CCAGAGAGGG CTGTGCTGGC AGAGTTCATA CTTTGATAAC TGAACCTAG  
AGTAAGCCTG CCTGGGAAA TNCCAGCTCA AGGGACTGAC AGGCATAATG CTCCTTGGGA GAGAAATGCC ACATCTGCAG  
CGACACGNAT CCTTAACACT GTCCAGGAC T

SEQ ID NO:1006: (Length of Sequence = 336 Nucleotides)

TATTTTNCAG ATATGGATAA AAATGCTTA GGAGASTAAA GAGAGACAAA GTTGAAAGCA GGTTTATAGT AGGTGTGTGT  
TTAGTGTGA TCCCTTTTGG CTCCAATAAT CAAAGTGATA AATATTGAAA ATTGATTCAT GCAGCATTAAC TTAATCCATT  
CTAATTTTNA TATATGTCAA AAGTGCCATC TCCCAAAC TGCTATCCCC TTCAGGAGAA GAGACTCTGC TGAAGTTTAT  
AAGGTGACA TATTGCCAGC TTCAATAATG TAAAGATGAA GTGTATACTG GAATCTTAA TGCAATAAAC AACTCTTTTG  
GGAAGTAACC CCGTTT

SEQ ID NO:1007: (Length of Sequence = 355 Nucleotides)

GGCAAGAAGG CGTGGGCGGC GCANIGCGGA TCCAGAAGGA CATAAACGGC AGCTTGTTC TCCAGGCTGG TGGGCTTNGT  
GCCCTGGGCC TTGGGATGCT TATCACAGTC CTTTGGGACC AGAACACTGG ATATCAGTNC AGCCTCTGGG CCAGCTTCAG  
AGGCTGTAG AGCATCATTG CTGCTGTGGC TGATGCTTCC TTCTCTCAGT AATCACAAC AGTCGTGTG GCCATCCAGG  
TTACCGAGTG ACTTAATTC CAGAAAATTT AATATTGAGG TCATTATTGT ATGCATTTTC ACTGTGCCA TTTTGTATC  
CTCGTAGGTA GGTCTATGAA GTACCACTGG GTTCA

SEQ ID NO:1008: (Length of Sequence = 269 Nucleotides)

ATATTAAAG AGAGCTTTGG TCAGTAAAAG TATAAANCT GAGCTTTGGT AAGGGTACAG TTTATAAGGC CTAGAGAACA  
TCAAACATT CATTTTATAT TGAATGTATA AATACCCACA TGTGAGAGCA CATGTGATT CAGTTTGAGT ATGTCGTGCT  
TGIGGNICTT TAAACCTTT CCAGCCTGGG TTATTTTCCC AAGCTTTCTT TATAATTACA CCAGGGAAAG AGTTACNGG  
NATTAATCAA AACCAAGACAG TGGACAATG

SEQ ID NO:1009: (Length of Sequence = 295 Nucleotides)

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GATAGCAGCA ACATACGTTT GTTATTCAT TTGCTACTT ACAACAAACG TTTATTCATT ATTTATAATG CAACAAGCAT  
 TAACCTAGGT GCTAAGGAGA GAAAAATGAG TAAGACACAG TTTCTTTCTT CAAGGAAATC ACAGTCTGTT GGCAGAGATA  
 AGTAGTAATG GTGCCTAATA TAGGTAACAC TTGCTACCTG CTCCAAGAAC AAAGTTAAGC AAGTGATTAA GTTAAGCAAT  
 GCTTAGAGGT AGAGGATGTA AGANTGGCCT TAAAAAATGT GTCTTCTGAG ATGAG

SEQ ID NO:1010: (Length of Sequence = 356 Nucleotides)

GTATTTCTCTC ATTTGTGCAA ATNAAATAGA AAAGGTAAAT NAGAAACTCA AGAGGTTTGT TACCTACTGT CAATGGAGTG  
 GGGAAAATGG GTGGAAGAA GAAGGCAATA AGAAAAGAGT AACAGGAAAC GACAGTNGAC ACTTCTGAGT ATACCTTTGTG  
 GAATCTCTTT CACTCTTAGA ATCATAGTAA TAGANGANGA AAAAAGAACT CCCCAAACTG AAAAGGATAG ACCACTGGAA  
 CAACTTCAAG TGGTCTAATG TAGAAGCAAA TGGAGTCCCT CAAGGAAAGA AGAGAGGTTT TGAAAAGAAA AAAACATTG  
 AAGAGTTAAC AGCGAAACAC TTTCCAACT TAAAGG

SEQ ID NO:1011: (Length of Sequence = 315 Nucleotides)

AGAGAGACAC AACTGTAATA GAGACACAGA GGAGTGGCAC ACAGAGACCA CCTCCAGCT GGAGACAGTC AGGAAGGACT  
 GAGGAGAGG GGACAGCCAG GGCTCCACAC CCAGGCAAGA ATGGGGGAGG GCCTGTGGAA CAGAGAAGTC ATCAACACAC  
 ACAGTTCAAA GTCTACCTTA GGCTAGGAGG GGGAGCAGGA AGAAGGGGCA GGGAGCAGG GGCCCGGCT GCNAGCTCCC  
 TGTGGCCTC TNCTGCCCC TGCTGGCTCC CNCTGCGTG CTCAGGCAGG AAGAGAGGAG GCTGCTGTTT TTAGG

SEQ ID NO:1012: (Length of Sequence = 272 Nucleotides)

CCCAACTCTA TAGCCCTAGT CAACCACTAA TCTATACCTT GINCTCTATA GATTGCTTA GTCTAGAAAT TTGTATATAA  
 TGAATGCAT GCACCTGAAC TTTTGTATC TGGCTTGCTT TTCCATTTAG CATAAAGTTT TAAAGGTCCN CATATGTGC  
 TGCATGTG TGCTTCTTTT TGTGACTGC NATATTACAT TGTATGGGAT ATACCATTTT GCCATATTIN GTTAAATCCA  
 TTCATCCAGT TGGTGGGACA GCAGGTATT TC

SEQ ID NO:1013: (Length of Sequence = 252 Nucleotides)

TTTGTTAGTG TTTTCTACAC TACACTCAAG TTCATTGAGC ATGTCAATTC AACAAATGT GACGTGTCAA CTTCAAAAAT  
 TAAACAAACC AGCNAAACAC AACACTGNC ACTACAAAGG AACTTGTTTT ATTCTCAACC TTCTATGATA GCTAACTTC  
 TCTGNAATTT NGTTCCCCCA CACATCCAC ATCTGGGCTC AATTTCCAGC TTCTGTINTT CTGTTTTATT TCATCCAAAA  
 TGTATTTTA AT

SEQ ID NO:1014: (Length of Sequence = 210 Nucleotides)

GGGATACACT GACAGTAATG TGAAGGCCA CACTTGAGA TTTCAGGCC AGCAGGTCTT GGNCAAGTGC CATTCCACCC  
 GGAACCTTTA ACCCAAGCGG TGGGAAGGA AAGCCAAAC TCCAAGCTGG CACTTTTTTG GGGTCTGGG CCATGACACT  
 TCTTAGGCCT TCTGCTGCTG AACTTTTACA GGGACAAAAG GTACCCACG

SEQ ID NO:1015: (Length of Sequence = 222 Nucleotides)

GGTAAGAAAG GTTCTCAGA GGACAGCCTT ATTAATTCT CAGAGGATGA ATTGNACAA TGGCAGCACG TTGCAGTCAC  
 AACTTCTTAA GGTCCTCAG AGGCTGATTG TTCCTAGNAA CACAGAGTAA TGAATATTC CTGAAGAGCA ATGAAACAGG  
 TTTTGAATTT TTTGTATCT GNACTTAGNA ACACATCAGT CCCCATCAAC CCATGGACTT CT

SEQ ID NO:1016: (Length of Sequence = 236 Nucleotides)

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GAATAAACTG GTTTGGAACC AGAAAAGTAC AAAAAAGAAC AGCTAGAGGT ACATAGACAC AGGACAATTG ATCAATTG  
 GAAAAAAGAA AGNACTTACT TTCTCCATTG CTGCCTGAAT TGTTTCCCAA TCTGCCTTGA AATGCCACTT TTGGCCAATA  
 TTTTINCAA AATTGACCA AAAAAGAAAA AGCACTAAT TTCCCTTTT ATACAAAAAT GNTTAAGTAG GCAAGT

SEQ ID NO:1017: (Length of Sequence = 259 Nucleotides)

GCTTCCCTAG ATTTTCCCT AATTITGAC CTATGTGAC AAAAAAAAA ATCTAGTCCA AGCTTTCCT ACCTTCTTTT  
 TTATTGCGC TTCTGCTTCT GNGTTCACA TGGGAACITG AAGTGGTTTA TAAGAATGCC ATGCTGTGCA AATAGTAAAA  
 ATGAATTINC TGATTTTAA AAAAGCCTC AGGAACGCA TATGTATANG GTATGTATAT GAAAAANGT GTINAGGAAT  
 GCAGGAGGA AACTAGGCG

SEQ ID NO:1018: (Length of Sequence = 354 Nucleotides)

CTGGAGGAG AGAAGAAGCA TCTGGAGTTT ATGAATCAGC TAAAAAATA TGATGACGAC ATTTCCTCAT CCGAGGACAA  
 AGACACTGAT TCTACCAAAG AGCCTCTGGA TGACCTTTTC CCAATGATG AAGACGACCC AGGGCAAGGA ATCCAGCAGC  
 AGCAGCAGC TGCAGCGCG GCTNCCAGC AGGGCGGCTA CGAGATCCCC GCGCGGCTGC GGACGCTCCA CAACCTGGTG  
 ATCCAGTACG NCTGCAGGG GCGCTACGAG GTAGCTGTGC CCTTINCAA GCAGGCCCTG GAGGACCTGG AGAAGACTTC  
 AGGACACGAC CCACCGGAC GTGGCCACCA TGCT

SEQ ID NO:1019: (Length of Sequence = 393 Nucleotides)

GATGACGAT TTGGCCATGG AAGACTTATC TTCATGGAC AGAGAGNYTG TSCAGAGATG AGTCAGACTC AGGGGCTGAG  
 TAACAGCAGA GCAGAGAGTG CAGAAGTGA CGCTCAGAAG CGAGTTTATG TGIGTYTTFY CCTCTATCTG CTGGCTGTGG  
 CTGGTACTGC AACCTATCCC AAAGTAACAG CCTAGTCAAT GAGGTATATG CTCAGATCT GGCAACTCT CTCTGCACAT  
 AAAACTGTGA TTCTTAGTTC TCTGAAAGAC CCCACATCT TTGAAGTGA AACTAAGAGC TACATTTTCC CTTTACTAC  
 ATCTCCCTTA AAAGGAAAGC ACTACAAGAG CTTTAAATA GCAAGCTTCC CTATTCTAAG GGGAAANAGT CTT

SEQ ID NO:1020: (Length of Sequence = 403 Nucleotides)

CTGAGGAAGA GAGGTGAAGT GGCACTTACC CAAACACCT GTGTACTGGT TAATAAGGTC GGTAGTTCCC ATTAATGAGC  
 TTGATGAAGG ATGGCACCTG ACAGGGCCTT AAATGANCITG ATGGAGTGAA TGINACCACT GTGAATTAAA TTTNCTTTAT  
 ATATAATAAA TAGCTGTGCT TACACATTTT CAGATTNCT TTGTACGCTA TGGACATGGA ACAGCGGGAC TATGATTCTA  
 GAACAGCACT CCATGTAGCT GCTGCAGAGG GTAATACAGG AACTACTCT ATCTATTTCC TTTCAGATT TAATTTCTAC  
 TTAGTACTAA AATCTGCTCT TTTTITGGGG GTGGGACGGT ATAGGTATG TGAAGTGT TAAATTTTTT NCTGGAAGCC  
 TGC

SEQ ID NO:1021: (Length of Sequence = 452 Nucleotides)

ATCGCAACCT GGCAGGGGTG TGGGTTTGC TGGGGCCTC TGTGGGGCCA TGATCTGAGG AGGGTATGTG GGGGGCGGGA  
 GCTCAGCACA TTCCATGGCC TAGAGGGGCC ACACAGAGGC CCCAGTGGGA CCCATGGCGT GGAGGCAGGT ATGGGGAGTT  
 KTGGGGAGAT CCCAGGGTGG TCTGGGGCCT GGAACCGGCC ATTRGGAGGC CCCAGCAGTT TCAKTGCCCA GGGCCTCCCT  
 GCAGAGCCAT GCATGGCAGA AGAAGTGTGT AGCATGAGCT GGTACAGGCC CATGCCATC AAGAAAGGCA GTGTGGTCAT  
 GCGTKTGAC ATCAGCAGCA ATGGCCTGGG GACCTTCATT CCAGATAAAA GGTTCAGAT GATATCAACG GCTTCCTGAA  
 GAGAGACCG GCAATAACA TCCATTCANT TGGGAGAGGA GGTGGGAT NT

SEQ ID NO:1022: (Length of Sequence = 415 Nucleotides)

AGCAACAGAA GAAAGGGCCA CATATATGCA AATGCCTGGT CACTATATCT GGCCCTGAAG AAGGAAGGAG TTTGCAGGGC  
 TCAGGAGACT GGAAATTTTT NCCAGGAGCT AGGAACGAGG GGTTGGGAGA CGTTGGTCAA AGGGTACAAA GTCCAGTTA  
 TGCAGGATGA ATAAGTTCTG AAGACCTAAC ATACAGCCCA GTGACCATAG TGAATAACAC TGAATGANCA GTATACTCGA  
 AATTTGCTAA CAGAAGAGAT CTTAAGTGTT CTCATAACAC ACAAACATA GCAACTGTAT GAGGTGATGG GTATATTAA  
 TAGCCTGACT GTGGTTATAC ATTTTATCAA AATGTCACAC TGTGGCTGAG TNCAGAGGCT CATACCTATA ATCCCCANCA  
 TTTTGGGGA GCT

SEQ ID NO:1023: (Length of Sequence = 379 Nucleotides)

TCAAGTCTCA AAACTTTAAA AGACAGTAGA TATTTGTGGT TTTCTAGCTA AATGAGGGCC AAGATTGNC TTTTCAACT  
 AAATGAATC ATGTAGTATA TCTGATTTCA TAGCTTTCTG GGGGAAAAGG GAGGATTTGA ATTAGCAGCA GTGCAGGTCA  
 GGAGCAGTAA AGAAGACAGT AGGAGGAGTC CAACTACAGA TGTGAATGAN CAGCCTCAGA GGAACACATG AGAAGGTGAC  
 CTGCTGTTA TCAGGAAGGC GGGGCTTTCT CTCTAAGATA CAAACCAAT AGGAATCGTC AAATAGTTCA AATTATCCGG  
 GGGAAAAGC CTGAGCAATG ATCCCTCTGG AAAACAAAGC AGTTCTCAGG CAGCACCTT

SEQ ID NO:1024: (Length of Sequence = 320 Nucleotides)

AGTCTACAGG AACAAAGAAA TCTAAGATGG CTGCTCAGCC TTGAAATGTA CATGTTTTGC AGCAAAGTTG TTGAAGAACC  
 TTCCGTGGC ACAGATTGTC CTTTTTCACA AGCATACAGA AGCCTCCTTC CGCCAGGNC TCTCCGTTG CATCCTTGA  
 AATGGCTCCC ATTTGACACA TTCTAAGTC TAAGAGATA CCACTAGGCG AGCTGTACA GTTCTGAAT CCTGGGCCAT  
 TGCACGTCAA ACAACTGATA TCACATTTT TTGCAGGAT TGTATCCATT CTCTGAAGAG TGGTCAAAGT AATAGCTGAT

SEQ ID NO:1025: (Length of Sequence = 368 Nucleotides)

TATTTAATCA TTTTCTCTT TGCCGAAGA CTAAAACTA AGAAGATTAT TCGAATGGTG AATTAACCTG TTGAAGAGAC  
 TATTCAAAG GGATAGAATG AGACTAATTY CTGACTATGT TTTGCTAGTG ATGGGTGGAT GGGAAACAAAC ATTACAAGAA  
 ATAGCATAAT GAATGTAGAA AATATTTAG TTTGGAGATG TGCATGANIT AGTTCTCTAG GTTTGCCACA ACAAAGCATC  
 CCAAAGTGT GGCTTAAAA ACAGAAATTT GTTTCATGGT TCTTGAGCCT AGAAGGTCAA AATCAAGGTG TTGGCAGGAC  
 CATGCTCTCT CTGAAACTCT AAGGGAGAAG CGTTCTTGT TTCINCT

SEQ ID NO:1026: (Length of Sequence = 379 Nucleotides)

GGTGAGGTG CATACAGGAA GGACCATGTG GGCTCAGAGC AAGGGGGCGG CCATCTCCTA GCCAAGGAGG GAGGGCTCCA  
 GGGACCCCAA TCTGCTGGC ACCTAGGCT TGANCTTCCA GCCTCCAGAC TGGGAGAAAA TAACGTCTCA TTGTTAAAGC  
 CCCAGCAAA TGANTACAGA ACCTAGGAAG GGGCAATGAA TGANTGATAG GTGGAAGGGC TAAGAAGAAA AGAGGAGGGA  
 GAGGAAAGAG ACGTGCTCAG ATCTGTCTCT NCTGGACATC CGATCCAGG CTGTCTCTTC AGTGGGNCCA AGTCCAATA  
 GCAGTCAGCT CAGAAATAAT CCTNAGGCA TCGAAGCTTT CACAAAGGAG GNCACAAA

SEQ ID NO:1027: (Length of Sequence = 411 Nucleotides)

GCCCTGGCA CCTAGAAGCA GCCAGGAGG AAGTACTGAC CATTTAAAAG TGGCAGATCT CCGGGCCCA TTTCTGCAGC  
 CTTCACTCTG CAACTCCAGG GAGGGTATTT TINATTTGTG GGTTCAAAA ATCTGTATAT ACAGTCTATG TGTTTAGAAT  
 TTGTGTTGTA AGTAACTAC AGCTTTGAGT TGGAAAGAAG TCACGGGTG TAAAACCATT TGGATTTTTT TAAAACAAA  
 GTATTAATAA TCTGGAAGAC AGINTTGCCC AGGTCAGGAG TGTTTTCTTG GTGGTTCCAG CCCCCATCAA TTGAAGTGT  
 TCTGGGCTCA GTCAGACACA GACATTCATC TGTGTCTGAC CAAATCAGGG GCTTTCCAC CTGTGGGGGA GGGCACAGTT  
 AGGATGTTTT T

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SEQ ID NO:1028: (Length of Sequence = 401 Nucleotides)

GATCATCATG CAGCTCAACT TTCTGTTGGA TTCCATGCTA AGCAAGCTAA CCTTATCCTG CATIGTTAGC ACTAGGCACC  
 CAGCTGCCAC CTCTCCATCC TGCTGCCCTT AGGCCACATG GGAGCAGTCC ATGCATGACA GCTCTATCC TACAAGSCCT  
 ATGAGTATGG ATTGGGGGGG CCAAAGGAA AAAGCTCCAT GTGCCCTCTT GTCTGOGTGG GTCAGAAGAG TTGTGCACGC  
 AGATTAGCAG GCCAAGGTCT GAGCCACAGC AGCATTTTTA TTTCAGATTT TGATAACTGT TTATATGTGT TGAAACCAA  
 NIGNCATCTT TTTAAAGCTT ATCCATAAAA AAAATAGAT GTCTTTTATA GTGGGAAAAC ACATGGGGGA AAAATCATC  
 TATTTTGATG CAGCATTGA TAATNTTAA ACACCTACA CCTCACTCTT

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GAAAAATGCC AATTGGATGC CCTTAGGTGG AGGTGAGAAA ATGGCATCCT TGCCTTCTTC TCAATATGAA ACATTAACTA  
 GTTGACAAAT TTATCCTTGT AGAAATGAAA ATCTATTTAA TCAGGGACCA GAAATGGCTG AGGAGATAAA TGCATCATT  
 CAAAATCTG CTTTGAATC CTGGACATTA CAAGGGGTA AATGCAGCAT GACTTTTGT TAACCACATT CAAAATGTG  
 GAACATTCT TTTAGAAATG AAAATATTTC AAGGCTGATG TATTTAAGN CTACACATTA TCAGGCNAT ACATTGAGAG  
 TTCGCTAAT TAAAGGTGT TGGSCATCA ATTATGTTA GTAGGTACT ATTCTTAAC AACTCAAGN TGCTTTAATG  
 G

SEQ ID NO:1030: (Length of Sequence = 340 Nucleotides)

TTCCGCTTG ATTCCAAGAA CCTCTTGAT TTTAATTTN ATTTTAAAG AGGGAGAGA TGGACTGAGC TGATCCGCAC  
 CATGGAGTCT CGGTCTTAC TGAGAACATT CTGTTGANC TTCGCTCTG GAGCAGTTG GGGGCTTGGT GTGGACCCTT  
 CCTACAGAT TGACGCTTA ACAGAGTTAG AACTTGGGGA GTCCACGACC GGAGTGOGTC AGGTCCCGGG GCTGCATAAT  
 GGGACGAAAG CTTTINTCTT TCAAGATACT CCCAGAAGCA TAAAAGCATC CACTGCTACA GCTGAACAGT TTTTTCAGAA  
 GCTTGAGAAA TAAACATGA

SEQ ID NO:1031: (Length of Sequence = 452 Nucleotides)

CCAGGGGAAG GNTCCCAAGG GACGGGCTGG CAGCCGGACA CATGGACAAA CTGATGGACC CAGGACTGAT CAGACAAAGC  
 TCTCATAGC AGAATGTGGG CACCTGCACC CAGGCCCAT ACCAAGTCCC TGTGAGCAA AAAGCTTAAA GTTCTCCCTC  
 CAGGCCAGG GCCAAGAGCG CCTCACAAG GGCTGCTGCC TTGAAGTTGG CCTGGGAAA TNAGACCCTG AGCGGACCAC  
 AGCCCTGAG CCTGGGAGG AGCAGCCCAT CCAGNAGCAG CACAGCTNCC GAAACTGAG GAAGAAGACT TCCACCCATA  
 GCACAAGAAC TGCAAACTACT GTCTNGNCA GAGCCACCAG AGGCCTTAGG CTTCTTAGGA CACCGATATC CCCCATTCAT  
 GGGGTNGGA GGGAGTGGCT TTTTAGGCA AGGGACTTTG TTAGAGAGGT TT

SEQ ID NO:1032: (Length of Sequence = 411 Nucleotides)

GAATCTACAG AAACATAAAT TATACTGAGT TGTGCTGTAC TGGTTTGTA GAACATCAGT GTATTAAGGA GAATGGTAGT  
 TTAATTGAA TATTTAAAGA AAGTAATTG AATGGTTCTA GTACTAGGGC CATTATTAAC TAGTAACATA GATTAGTGAC  
 TTCAACTGGG TGCTCTATT ATCTGATTG TCTGAAGTGA AAAGTGTAA GGTGCTCTTT TAAATGTAT TTGGAAACAC  
 CATAGTTAGG GTAAATNCAA TGTCACAAT CACTCTGCA TATTATTNC TTAGCCAAAT TTATGAATTC TAAGTTAGGC  
 CAAATTGAAG GTTGGAGTT TTACATTGTG GENGAGTCTA AATTCATGCG TTTGGCAAGC ACCAAGNCA TGGGGAAAGA  
 ATCTGGTATT T

SEQ ID NO:1033: (Length of Sequence = 372 Nucleotides)



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AGTGGCTTAC AAAACACAAA TTTATTATCT TACCATTCTG TGAGTCAAAA TTCCAAAATA GGTGTCACTA GGCTAAAATG  
 AAGGACTGCA TTTTNNCTG CAGGCTCCAG GAGAGATCTA TGTCTTACTC TTTNCGGCTT CTAAAGGCTG CCCACATTCC  
 TCGACTAGTG GGGTCCCTCC TTCATCTCTA AACCCAGCAA CAACAGGTTG AGTCCCTCATG TCACATCTTT NITACCTTTC  
 TGTATCTCA TCTCGCTGAC TGCTGCTGGG AAAAATTCTC CACTTTTAAG GGCTATCATG ATTAGACTAT GCCCACTAGA  
 TAATACAAGA TCTCAGATCC CTTAACTTCC ATCAGATCTG CAAAAGTCGC TT

SEQ ID NO:1034: (Length of Sequence = 320 Nucleotides)

CGGCGCGGA CGGACGCCCT CAACCGGCAA ATCCGCGAGG AGGTGGGAG TGCACTGAGC AGCTCCTACA GGAATGANIT  
 CAGGCGATGG ACGGACATCA AGCCTGTNAA ACCAATAAAG GCCAAGCCCC AGTACAAGCC CCCAGATGAT AAGATGGTTC  
 ATGAGACCAG CTACAGTGCT CAGTTCAAAG GAGAGGCCAG CAAGCCAACA ACAGCTGACA ATAAGGTCAT TGATCGCAGA  
 AGAWTACGA GCCTCTACAG CGAACCCTTC AAGGAACCCC CAAAGGTGGA AAAACCTAGT KTTTCAGAGTT TCAAACCAA

SEQ ID NO:1035: (Length of Sequence = 375 Nucleotides)

TTTTTTTTT TCAGTGGAAA ATAACCTTNA TTGAGACCCC ACCAAGTCA AAANCTGTNC CTGGCATTAA GCTCCTTCIN  
 CCTTTCAT TCGGCTTTTC TTCAGTGGTC CCATGAATGC TTTCTNCTCC TCCATGGTCT GGAAGCGGCC ATGGCCAAAC  
 TTGGAGGTTG TGTCATGAA CTTAAGGTCA ATCTTCTCCA GAGCCCGCCG CTTGCTCTGC ACCAGCAAGG ACTTGGCGAG  
 GGTGAGCACC CGCTCTTGG TTCCACCAC ACAGCCTTTC AGCATGACAA AGTCATTGGT CACTTCACCA TAGTGGACAA  
 AGCCACCAG AGGGTTGATG CTCTTGIMAG ATAGGTCATA GTCAGTGGAG GCATT

SEQ ID NO:1036: (Length of Sequence = 304 Nucleotides)

CCTATGCT TCTTCTTTT GCTTCTCTC AAGTAGAG TGACTTTTTT GAAGGTTAGC TTCTTCTAAG AGTTGCATGC  
 TATNCTGGC TCTTACAATA GCCTCATATC TCNATTINC TAATTCATG CACTTGTCTT GTAGCTCTCT GGTCTGTTTT  
 TCCAGATG TGATTNCGGN TCNAAITGG TTGGCTTCTT GGAITGTAC ACATAATCTT ATTTCTAATT GTTTTATACT  
 AGACTGTAAC TGCTGTAAAC GGCTATCTGA TGCTTCTCT CTNCTATGG CAGACACCAC ATCC

SEQ ID NO:1037: (Length of Sequence = 341 Nucleotides)

CTATGAGGAC CAGCAATTAG ATTTTATAGC AGTACTTCCC ATTAAAGTGA ATAACCAAAA TCACTTTAAG GTCAAGATCT  
 TAGTCAATAC ATTATGTAAA ANCATATACA ACAGACAATA CACCAGAAAC TAAATCTTTT GCAACCTTTT AAACCTTATGA  
 TGAAAAACAT TAATGTCAGC TCTAAATGT ATTAAGCAGT TTTTACAAAA AAAATGTATA GAATACAGGA GCCAAACAT  
 TTANCAATTA CCTAAGCTTG CTGACACAGA NTACTATTAA TAAATAATAC TGATCANNEN AAAGTAATCA ATTTGAAAGT  
 GGTGGGGTA GAAGGACAAC A

SEQ ID NO:1038: (Length of Sequence = 281 Nucleotides)

GGAGGCTGAG GTGAGAGGNT CCCTTGGGCC CAGGAAGTCA AGGTGTCAGC AAACAGTGAT TGCACCACTA CACTCCAGCC  
 TGGGCAACAC AGCAAGATCC TGTCTCAAAA AAAAAAAAAA ATATCAGTAT TGTTTTATTA ATTGTAAACA ACACACTAAA  
 TAAATGTAAG ATGCCAACAC TAGGGGAAAT AGGATNTGNN GTAAATGGGA ACTCTCTGNA TCATTTTTCG AACTTTCTCG  
 TACATCTTAA ACTATTTTAA ATGNTTCTAC AAAAGTTAAC A

SEQ ID NO:1039: (Length of Sequence = 246 Nucleotides)

CCAATGATGG CAAACATGAG GATGGCAAAG AAGAGAAGCA GCCCAATCTG CAGGAGTGGA ACCATGGCCT TCATGATGGA  
 CTGAGCACC ACCTGCAAAC CTGGGGCCAG AACAGGGCAG GTCAGGAAGC AACGTGGGCA GGGTAGGGCA AGGAATTTNG

TGGGGGCAGG GACAGANCAG CAGGAACCTA GCAGGGACAG CAAGGTGCTA AGCAGINAGT GCTTTCAAGG GCAAAGGTTA  
GAGCTG

SEQ ID NO:1040: (Length of Sequence = 399 Nucleotides)

GAGGTCAAGA AGAGCTTAAG AAAATATAGG AGATACTACA GCATGTTTGG TTCATGACCG GAATGATTTA GTAAGAAGGA  
AAAGCCAATA ATGTAAGAAA GGCATGTCGA GGAGCAAAGA CTTTAAGGAA TAAAAAGGNC AAAATTGTTT GTTCTCAGG  
GAAGTAATGA CAGGGGCTGA GCAGGAGCCA GGAAACCCAG CTTTATAGCTT CAGNTCTGCC TGACATTTAT TGGTCATGTG  
GCTCTGGGTG TATTCTCACT TCTCTCCCT AAATAGCAAG AAGGAAAAGC CTCTTGAGC CTCTGTCTC TGCTTCTTC  
TGTAATAGG TTATGTTCT GNTCCGCTTA GCTGGTTAAT TATAGAATCA CCCINGCTGG GGTCTTTTGG GGAAGTGGC

SEQ ID NO:1041: (Length of Sequence = 324 Nucleotides)

CCATAACAG TCGTCACTG ACAAATGTTG TTAOCGAGCA CATTTTATGC AGTGTGTGAC CATAACGAT ACACAGAGGA  
AATTCAAGGC TTCTAGGAAA CCTCTAAGG CCTCATCTCC CTAAGGGCAC CTGATGAGCC ATTCTCACC CCTGCACTGC  
ACCAGGCTC CAACACCACC ACCAAGGCTA ACCGCTGTGC ACTCTGGGCC CTGGGTCTGC AGTACCTGGC TCCAAGCAC  
ACCAGCATCT GAAAACTTGN CATCCTTGGC GATNTNCGG GGAGTATTGG TTGATTGCAG TGACAAATCG GCAGAAGTTC  
CGGG

SEQ ID NO:1042: (Length of Sequence = 212 Nucleotides)

ATCTGTTTCT CAGAGATGAC ACTGCCAACA ATCAGAGAT TGCCATACAT ACAGTTATGT ATTGGCTATT CACAATTAC  
AGTAGTGTTT TCCCTCTGA AAAATATAAG TNCAAAAGCT AAGTAAACAA TNGGTACTG CCATTGGGN TTTTITACAT  
GGNCTTAGCT TAAAGAACTG GTCTTTAGCA AATATTCAAC AGNTCAACCT GA

SEQ ID NO:1043: (Length of Sequence = 329 Nucleotides)

ACTTGGAGAA AGAAAAATTA GAGAATTCCA GATCCTTGA ATGCAGATCA GATCCAGAAT CTCCTATCAA AAAACAAGT  
TTATCTCTA CTCTAACT TGGATACTCA TATAGTAGAG ATCTAGACCT TGCTAAGAAA AAACATGCTT CCCTGAGGCA  
GAGGAGCTA TTCCAGATGC TGATAGANCC ACTTTAAATC ATGCAGATCA TTTCATCAA ANTAGTNCAG CAGCAAGATG  
AAGAGCGAG TOGGCAGCTG AGAGAGAGAG CTCTCAGCT AATAGCAGAN GCTGATCTG GAGTNAAGAT NTCAGAACTT  
CCAGCTAT

SEQ ID NO:1044: (Length of Sequence = 285 Nucleotides)

GTGGAAGCTG TTTTATTTT ACACCTTCT GTTTTAAAC ATAGGGACTG ACAGGGAGAC CCAGGGCTGC AATCTGGGTG  
GTGCTACATT TGTAACAAG GACAACCTGC TGTATTTTAA CCCAGAAACA TTAGAAAGT TGCTCTTGAA CTCTGGCTC  
AGATTAGAT GCATCTTGA AGTCTGATA TTTGGCTTAT CTGAAGCTTT GGGATTATCA TTINCTAGTT ATGAAGGGAA  
TGAAAGTGTT CATAACATT TTGCAGGTGG AAGGTAAAGT TGTG

SEQ ID NO:1045: (Length of Sequence = 317 Nucleotides)

TCGGTACTG TAGTATGTA GTATAGTTT AAGTCAGCTA GTGTGATGCC TCAGCTTTG TNCCTTTTGC TCAGGATTGT  
CTTGGCTATA CAAGGTCTC TTGATCCA TATGAAATT AAGTAGTTT TNCCTAATC TGTAAGAAT GTCAATGGTA  
GTTTCATGG TATAGTATG AATCTATAA TNAATTTGG CAGTACGNC ATTTTCATGA TATTGATTCT NCTATCCAT  
GATGATGGAA TCTTTTCCA TTGTTTGGG NCTCTCTA TTCTCTGAG CAGTGGGTT GTAGTTTGG GACAAGA

SEQ ID NO:1046: (Length of Sequence = 316 Nucleotides)

CCAGGTGCAA TCTGGGCTCA CTGGACCTC TGCTCCGCG TAGTGGGACT CCAGCTGTGC ACCACCCAGT CAGCCCCACG  
 CCCACCCCTGC CAGGGGTGTG CACGGTTCAG CGTCACTTTA CAGATGAGGA AACTNAGTCT TTGGGAAGCT GACAAGGTGC  
 CTGACACAGG CCAGGGCAGG GNCACCCCTC ATGGGCTGTG CTGCAGCCTC TGCTCGTGG GTCAOGGCAC CCCATCTACG  
 AGGNGCCCT CAAGGATGCG CCGTCGAGTN CCGGGGCCC TTGGCATGTA CCTGGCAGAG AAGGCAGCTC AGGGGT

SEQ ID NO:1047: (Length of Sequence = 261 Nucleotides)

CTTCTCAAA CTCGGGTTC AGCTGGGTCT CAAACTCAGG CTCCAACITG GTCTCAAACCT CGGGCTCCAC CTGGTCCCA  
 AACTCGGGCT CCACCTCGGT CCCAACTCT GTCAACACCT CTTTNTAGGT CTCANTCTCC GACTCTCCC AGCCAGCGGT  
 GGTGGCGGT ATNAGGCCCC AGGGCTCTAT GGTAGTGTCT AGGGTGTGTG GCAGGGGCAG GGGGCAGCGT GGGAGGCACA  
 GTGTGGGGG CCTAGGGTGG T

SEQ ID NO:1048: (Length of Sequence = 390 Nucleotides)

GAGAACAAAG AGAATGGAGG CCACATACAA TGGAGTAACA GAAGCTTTGC CTGTAGCTCA AGAACCAAGC CGAGAATCCA  
 CACCTCTGA TTCACAGTTC AGTATTTTCG GGCACITTAC TCAAAATATT TTATAAATTA TTTTAAATC GGCAAAATAT  
 TTAAATTCA TCATTAAAT TTAAATTCT AGATGCCCTA GTGGCATCCA GAACACATAT TINGGGGAAA ATATTCTAAT  
 TTTTTAAAC AGAAAAAGCT AGGNNCAGAT GATGCATTAA AAAAGTAGAA CACAGAGCTC TTAATTTAGG AATGATCAAA  
 ATAGGGTGA TTCAACTATT ACCTTCTCT AGGGATTATG GATCAACCCC TAGCAGCAGN CAAAGTCACA

SEQ ID NO:1049: (Length of Sequence = 335 Nucleotides)

AAACTCACA GTAAATAAT GCATATTAA GGGAAATATT ATACAGACTT TTTACACAG AAGTACATAA TANGATTTT  
 TAAAATCTAT TGCCATTCAT TTATTTTGC AAAAAACGT ATAAATATGT CACCAGCTTT NCTTAACCTA AAAAATTTAA  
 ATAAAAGACA CCAGATGAAA ACTACCCCTT GCTGCCATTT TTTTAAAGT TTTTGTAG GGGTTTTTA TTTTGGGT  
 TTTTINCIT TTCTGCTTA GAATTGGGT TCTAGGGAAG AAAAGCCCT GCATTAAAAA CAGNCCATTT AAAAAAAA  
 TTCAAAGTTC TGGAT

SEQ ID NO:1050: (Length of Sequence = 265 Nucleotides)

AAAGGGAGGG AGGGAGGGAT GTGGAAATA TGCAAGATAA ATTAATNCT TAGTTAAAAA AAAAAAAG TTTACCAAC  
 TGINTCCAT TACTGAGAAG CCCCCACACT GCCCCCTGT GCATATTCCT AGTATTTCT CCATGTCTG CTCTGCTGTG  
 CTGCCCTACA AAAAAACCT CCGGGGGGG AAAAAAANC AAAAAACGG TGTAGTGTGA ACTGCTGAAG AACTTAAATG  
 TTCAAGNGCA TCTTTAAAGT CTAGG

SEQ ID NO:1051: (Length of Sequence = 298 Nucleotides)

ATTTCTAAAA TGCTCTCAA TACTAATATT ATACATCTC CCATTTATCC TCAAAAAACC CATGAGACTG GTGATGTAAT  
 TNCGTGTTC ATTTCACAGC TGTGGCAGTC AGTCTAAGA CCAAGTGATT TGCTCAAAGT CATGGAACAC TTAATGGCA  
 GAGCTAAGGC TTAAACCCAG AATTAAAAA TTTTNTNAG CTTCTNGTTT TTNCCATTAT ACCAGTTGG CCTTTCATT  
 TATTCATGGG TTAAATTAA TTATGGTAAC AAAGGGCCCC TGGTCACTTT GGACATTT

SEQ ID NO:1052: (Length of Sequence = 359 Nucleotides)

AAGGCAAACG TGGTACATCA TGACACCATG GGAATGACTC ATGCCAGCCA TAAAAAGAAT GAGAATTCTG TCCAGAATTG  
 GTTCTTCCG GTGGGTCTT GGTCTCGCTG ACTTCAAAA TGAAAGCCAT GAACCTCGT GGTGAGTGT AACAGTTCTT  
 TCAAAGATGG TGTGTCCGA GTTNTTCCC TNCAGAAAG TTCAAATGT TATCCCAAGT TTCTTCCCTT CTGGTGGGT

CGTGGTCTTG CCTGATTNTC AGGAGTGGGA GCGGCAGAAC CTTTGCCCTGT GAAGTGTTAA CAGNNTCTTT AAAAGGTGGG  
TGGCATCTGG GAGTTTGTTC CATTTCCTCC CCAGTGGGG

SEQ ID NO:1053: (Length of Sequence = 195 Nucleotides)

GTTCAGAAAT TGTATTCCA GTGTGGCAG GTGGGGTCCC AATGGGAGCT ATTTAGGTCA TGNAAGGTGG ATCCCTCATG  
AAATAGATTA ATGGCCCTCC CTTCCAGGGT AAGTGNAAIT NCTCAGCTG TTAAGTCCC ACTGCAAGAA GGTGGTTGAC  
CAAAAAGAAG CCGGTGCTT CCCCTAACC CTGA

SEQ ID NO:1054: (Length of Sequence = 319 Nucleotides)

ACAAAACCAG ATGTTCTCAC AAGAGCCCTT GCTTGAGAT CACTTACATA GTTTTGGGG AAGCCAAGAT CGAAGATTTA  
TOCCAGCAAG TCACAACAG CAGCTGCTGC AGAAATTCAA AGTTCAAGGT GCAAGCTGTC TCAAACATTG CAAGCAAAAC  
ACACAGTACT TCCAAGTGT ACAAGAGGAG GAGTGAAGA GGAAGAGGTT CGCTGAAACA GGTGTTAGTA AGTTNAAGGT  
ACATAGANTT GGTTCATGTT CACAAGCAA TGTGTTGAG GGNCAAGGN CAGTCCGAG CCCTGTAAGT AACACAGT

SEQ ID NO:1055: (Length of Sequence = 205 Nucleotides)

AACTCAAATA GGAGCTAAAA AAAAAAAAAA GAATCAATGA AACAAAAAT TAATTTTTTG AAAACTAAA ATTGATAGCA  
CTAGCTAGAC TAACCAGCAA AAAAGAGTAG CAAGTACCTA AATGAAAANC TGNAATGNA AAAAGGAGGA CATTACAAA  
TNAACACAGG AAATACAAA GTTCCATGCA GCGAAGTTAT TCAG

SEQ ID NO:1056: (Length of Sequence = 165 Nucleotides)

TGCAAAATTA TGATTCTGC TTCACCAGAT TGGTAGAATG TATAAGATGG TGCATGGGGA AGCATTTAAT ACCCAACAT  
ATCTGATTAC ATTGAAATCA CAATGGCTC CCTATCAAT VAGTAGCGT ACTGTTGAG CTGVAAC TTTGAAATA  
ACTG

SEQ ID NO:1057: (Length of Sequence = 203 Nucleotides)

CTTTCATTCA AAACCATCA CAGAAATGA CAGCTGGGT CTGTAACAA GCATTATGT TTTAGAGCAT AGGTCAGTAA  
TTGTATATGA GAGCATAC TGGCTACATA CAAATTAAT GTTCAGNCC ACAAATTTN CAATGTTTAA AACAGGATNA  
AGCCTTCCCT GTGAAAAGCA GCACCTTGT GAACGTTCT TTG

SEQ ID NO:1058: (Length of Sequence = 201 Nucleotides)

AGTGCAATAT GCACATTACT AAGCACAAA AACAGTGTA ATTCAGAACT ACTTGCAIT TTTTAGTTA AATGCCAATG  
AATTATATG CCTTAGTTTT ATGAACCTGN CTNCTCTTG TGCAATTCCT TCTTGCAA TGAATTGACT TNAAGCGGT  
NAGTGAATAG CTTAGNCTG TAGGATGTCC TTCAAATTT T

SEQ ID NO:1059: (Length of Sequence = 176 Nucleotides)

CCACACTGGC TACATACATG TTTTCCAAAT TAAGTTTCT GATGGCTCAT CATTGCCAT CTCTTCAAAT CCAGGTCTT  
TTAAAAATCT ATGACCTGG AATGAATGTG CCAGAATACC TGTATCTGG AAGTCCATGC GAATNTTGGC NTGACTGCC  
ATCCGCCATC TGCTGG

SEQ ID NO:1060: (Length of Sequence = 277 Nucleotides)

GTGAGAAGCA GTGTACAGT ATTACAGICA GCCACAGAAG CTGTGTGGG GGACAAGACC CAATCCTTCC CCACACCAGG  
CAAAGCAGTA TTGGACATGA GTTGGCATGT GGCTGGGCC AGTCTTAT CCCCCAGNC CTGAGGAG ACCTCTT

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TGAATGGTAA ACCAACCCT AGGCTACCAC TCTGTATTTC ATCAGGGGTA GGGGTATTAA ACCCCACATG CAAGTAAGGA  
ACCCCTTGCCC CCAAGTGTGCA AATGGGATGG GGATGCT

SEQ ID NO:1061: (Length of Sequence = 206 Nucleotides)

AGAAAGTAAG ATTCTCAGGG CAACAGTGTA CAGCAGAGTG GTTGCTCCAC AGACAGAGGA GGGCAGAGTG GCCCAGAGTA  
TCAGCGTACA GCAAAGTGGG TGTTCOCATC CACAGGGGCA GCGCTATCTC ATAGGANAGA ACAACCCCTA GGAAGGCAAG  
CGTCAGNCAG NCAGCAGTGN AACAGTCAAC AGTTAGCCAG TGTCAG

SEQ ID NO:1062: (Length of Sequence = 316 Nucleotides)

TTNCCCTCAC AGAGTTTTAG TTAGAATCAC TTTCTCTATT TCCACAAATC CTTCTTTTCT TTCCTTTTAT TTTCTAAAGT  
GAATGTCCAA GCAAAAAGGA AGCAAAAATG GTCAAAGATC TCTCTTACAA TATAGTAATA AATTATNCA AACAACTTGG  
AATTCACCT GTGCATTGAA AATNCAACTC CAACTGCAA ATTATGGCAT TTTTCCNC TCAAGGAAT TAGTGAAGTC  
CATTGGATGC ATTCATACTN CTGTTTAGGN AATAAGGGAA ACCGCTTGT AAAAGTNCAT CATGGCCTAG GAGTTA

SEQ ID NO:1063: (Length of Sequence = 314 Nucleotides)

ATGATCTGGT TTATGCTTCA GAAGAAGCAT AGTAGCTTCT ACAGAAAATA AATGATAGAA GGCAAAAGAG AAACATGGCG  
AGTATTCCAC TCCAGTGTCT AGTCAAGAGA TTACAAGGGC CTGGCATGA GGACAACAGT AGAAATNGTT AAAAGTGTAC  
TGGATTGCAA AATATTACTT TTGGGCCAGG GCGCCGNGG . . . ACACGCT ATTAATACCC AGCACTTNT GGAGGTGCAG  
GGAGTTNCGA GTACCAGTCC TGGGCCAACA CCGTGGAAA TCGTGTGAA AATATAAAA ATTAGCCGGG CCGT

SEQ ID NO:1064: (Length of Sequence = 322 Nucleotides)

GAAAGCATTT GAACTAAGTN TGTAATAATG GCAGATAATA ATTAACACTT GGTAGCAAGA AACGCTTCT GAAATACTGG  
GAACACTGAC TTGTTTCACT GTAACATATC ACCTAGTGCT GTATCTGCCA TAGTGCTCAC AATTGCAACT TTATATCCAA  
CATGGGTGTT CCATTTCTAT TTGGATAAAA TTTACTGGAA ATATACTAGC AANGAAAAAC TGGTCTTAAA ATGGCAAAAG  
GCTCTGGCAC TAAATCACT GCTACTTAAC TTAGTTTACT AATTAACCTC CTTAATTATA GTTTTCCAAA TCCGCATGCA  
CG

SEQ ID NO:1065: (Length of Sequence = 297 Nucleotides)

CCCTGNCAC TCCTTGCAAT GACTGATGCT GGAACTGGG TCAGGGAGCT CCAGGAGGAA CCAGACAGGN TCCTGTTAGC  
AGGCTCACCA CAAGTCTTAA AGGGCACCAG CCTTGAGAAG GGCAGTTGGG ATGTGGCCAA ATGTGAAGCC AGGTTTNGTG  
GGATCCTGAC TGTCCAGGT TACAAGTCC TGGCCACTCT GTGAACCTTG GGCAAGTTAA CTTCCAACCT CTTTACAAGT  
TCCCTAATCT ATNAGGAAAC ANTTAGTAC ATGACCTTCA TGGGAATTTA TTTATGA

SEQ ID NO:1066: (Length of Sequence = 267 Nucleotides)

ACAATGGGAC TGTCAGAGCA GCCAGCTCCT CCTGACTGC TCCACAGGAA GAGCCATCAA CAAAGCCAAT CCTGGAGAT  
AGGCTCTGAA ACCAGGATAG AGACTCCTTC AATGGCTGCT GNTGGTTCCA CCATGTATCA TCCAGAGNAA TCACCCTGNG  
TGGGCATAGG TGGGCCTGGG AATCTAGGGC ACAGCAATTC CACACATCTT CACCTAGAAA CCCTCCTTCT GGGTGGGCT  
GCATGGTTTC ATGCCTGTAA ATCCAG

SEQ ID NO:1067: (Length of Sequence = 220 Nucleotides)

AAAATGCAAT TGGTTTGITA CTGAGTACTA TTCGTGGGAA GACAGCATCC TGNACTCCCT CTCTACAGAA TATGGGAGT  
AAAAATGAAT GTCATCCCG GTGGGAAATA TTATTGGGG TTGGAAGCAC AGAGCACAGG AAAAATTAAG TNCAGGAAAC

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AGACACTAAG AGTGCACTGG GCAGGTCTGA CTGCAGGTGA TGCAACTTGC' CAGCCGTGGT

SEQ ID NO:1068: (Length of Sequence = 412 Nucleotides)

TGGCCAGCAT CTGGGAACCT TGGGTGTGTG GACCAACTTC TTCCAACACG TGCGCACTGA TGGCCGGGGC CCCAGCCAGG  
CCTGCTGGA AGGGTCTTCC CCGNCCCGAG GGACTGTAGG GGGTCTCTAG GAAGCATCAC ATCAAGGTCC TCAGGTTAGA  
TNCAGGNCAG CCCATTGACC CATTINAGG GACAGCTGGA GGAAGCCCG GAGTCCCTTG TTTCTTCAGC TGAG

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TGGCTCATGA AGATAATTTA ATGCTAGACT GATTCTGCA GAGTAAATC TGGCATGTC TTCAGGAAGT TTTCTTTGTC  
GCTGCATATG AAACATTAGG TCTCTCCAT TTACATATC TATAACAAAG AACATCTGC TTTCTGTCTG AAAGCAAGAA  
TGCAGCCTAA CAAGGAAAGG ATGATTGGAT GCTGCTCAA ACACATGCTT CTCTGTCTGT ACCCAATCAA TATCCTCATC  
ATCATTAAAC AGCTCTTTT TCACAACCTT CATTGCATAA ATACGATCTG TTTTCTTTAA TGAACCAAC AGTACTTTGG  
CATAACTTCC TCTTCTATT ACCCGGAGCA AATCAAAATC CTGAAGACCT AGACTGGATG AAGCTTTGCA CTTCCCTGG  
NGTCATTGCC TC

SEQ ID NO:1070: (Length of Sequence = 358 Nucleotides)

GTGATTGTC CACTGCACTC CAGGTTGGGT AATGCAGCGA GACTGCGTCT CAAAAATAA ATAAATAAA AAAAAAAAAA  
AAAAAAAAA AAAAAAAG CACCACCGCA CTCAGCCTG GGCAATAGAG TGAGAACCTG TTTTCCAAA AGAAAAATNT  
TAAAGANTG ATCTNGGCCA GCGTGGAGG CTCATGCTTG NAATCCAGC ACTTTGGNG GCCAAGAACA GGTGGTTCAC  
TTGAGGNCAG GAGTTGAGA CCAGCCTGGC CAACATAGCA AAACCCCAT CTNTACTAAA ATTACAAAA GTTAACTGGG  
CATGGTGGTA CATGCCCTNG TAATCCAGT TACTTCCG

SEQ ID NO:1071: (Length of Sequence = 411 Nucleotides)

CTATTTATGA ATTCTGTCAT TGGTTTCGAA AACTCAACAC AGTTAAATGA ACAGGAATTG AAGGTGCATG ATGGATGGT  
CCCTCATAGC ATTTAAATCT CTTCACCTG ATTAATAAT CCTAGTTCTT CTTCACCTGAA TTGTTTAGAG TTTTINAGCA  
GCTCTGCCC TGATTAAAC AAATTAGCAT CAAAGATCCC CTGTGAATG AGAAATCATT AATTGAGAAA CATGCAATGC  
TCTTAATTA CTTTATAGAAC AGTGAGAGAA CAAATAATCT CAGGTTCCAG AGGGCCCTGC CTGCTCTGCA CGTGAACCTC  
ATTTGCTGTA GCTGCTGGA TAAACTCAA GTAGGCAAC ACTATTGGG GAATATCAAT GCAAGCTTC AGTAAACACA  
CTGTAGGATT G

SEQ ID NO:1072: (Length of Sequence = 342 Nucleotides)

TCCCATTITT ATAAATTATG GAACATGAAA CTGTATTTCT ATGAACCTAA TGATTTTTTT CCATAAAAT ATATGCTAAG  
AGAGTCACCA CAAACTATG AATTCTCTCC CGAATTATTT TTGCTTCTTT GGAGCACCAT AGTCTTTGTT CAAATCACA  
CATGAACTG TTGCTGCAAT GCTAAAGATG TGAATCCACC ACTATCAATA CGGTACAGGT AAAACCTGGA GCCACATGTT  
ATTCAAGTTA TTTTGTAT CTAAATGATT ACATGAAAT AAAATAGTAA GCCAATATTA AATTGTAGG CATAGTTGCC  
CCACCTNAA AGTGTTTACA AA

SEQ ID NO:1073: (Length of Sequence = 217 Nucleotides)

GTCTCTGTC CTGGCTAGGA TAATGCAAGC NCTTTTCTGA TGATCAGAA TCGAAGAAA TAGCTGTATA AAACAGGACC  
TGATTACCA GNACTAAAC AATTACACTC CCATTTCAT TGTTCATAT TTTTCTCAC GNTACACAA CTTTAAGAT  
GGAAAGGGAA AGCGATTTTT TTTTCAACAA GTGGGCCACC AGATGAACCA AATTAGA

SEQ ID NO:1074: (Length of Sequence = 379 Nucleotides)

GGTTAAAATT TCATCGGAAT GTATAAGCTT ATTTATTAGT GTATTTAATG GTTCATCAAT TGATAAAACA GGTGTAGCAA  
ATACATGCCT TCCTTTTGGG GGATGGGCCT GGTTAATCTC CAAATTGGCC GTTTGGAACA ACTCATCATT ACTGTACAAA  
GAAGGTACCA CTGGGTGGGA ACTTTCACCT TTTAACAAAA CTGGTTCATA TTTCTCACTT GCATAGGAAA TGGTCAAACC  
TTGAAGTGAA GCAGAGTGCA TATGAGAAGT AGGCGACACA TCAAAACTG GTACAGATGT AGAGTGCAGC ATGTTTTCAC  
TTGAAGCAGA ATTTGATACA ATGAGGATGC AACCATGTGA GANCTAAATT TATCAACTT

SEQ ID NO:1075: (Length of Sequence = 345 Nucleotides)

ATTAAGTGA CAGTCCAATC AGAAATATTT AAACAAAGTT TCACTACTTA AACACCATCT AAATATACTT TTTGTTATAT  
TCCCAGCAGA AATTGATGGC AAGGAATCAT ATATCCCATC AAAACCGTAT TTTTCCCCCT AAAAGGCAGT TTAGATGTCN  
TCATTCTAGG NTTTCCATCT CTCTCCTCCA CCATTCOAAT TCCCAGAGTA CCTCTACAAA TATCCCTGCT TACCAGTAGA  
NCTATTGCT TTAACAATCT TTCTGTGGT AAGGAGATGC ATATGCCAAT GTGAAACTA TGGAGGGGGA CTCTGCCTT  
CAAAGGCTGA CTAGAAACCA TTGGA

SEQ ID NO:1076: (Length of Sequence = 286 Nucleotides)

TTTTTTTGA GATGGAGTCT CGCTCTGTCG CCCAGTGTGG AGTGCAGTGG CATGATCTCG GCTCACTGCA AGCNCGCCCT  
CCTGGGTICA TGCCATNTC CTGCTCACC CTCCGAGTA GCTTGGACTA CAGGCGCTG CNACCACGCC CAGCTAATTT  
NTINTGTGTG TGTTTTTGGC AGAGACAGGG TTTCAACATG TTGGCCAGAA TGGTCTCTAT CTCCTGACCT CGTGATCCAC  
CCGCTTGGC CTCCAAGGT GGTGGGATTA CAGGCGTAAA TMACCG

SEQ ID NO:1077: (Length of Sequence = 366 Nucleotides)

TCATAGGT CACATTTTAC CCATGAAACC TTTCTAAATT ACCTTTTGA TTTNTGCCT ATCCTTCTAC ATCATCATAC  
TTGTCAATT AAAGTCACTT TTTGGGTAA CATTTCAGAA ATTGGGATTC CTCTTACAAT TGCTATCAGA CAGAAGCCAA  
TTATGATGT GTCATGCTT ACACATGGG AAATAACAAA ACTGCCAGCA TGACATTTGC ATATGACAGT CAACAGCCTG  
AAAGAAATTC CCAGAAATGA TACTGGAGCA TTCAATTCAC CCTCTAGGAN CCAATGGAC TNGGAAGGAA GTAGAAGATG  
GGGAATCCCT AAGCAGCAGT CAAAGTAGGC TGGCTTTTCA TAATTT

SEQ ID NO:1078: (Length of Sequence = 380 Nucleotides)

GTTTAAGTGC GAAGATTTTA TTAGGCGGTA CAATTCOAAG GTGGTAAGGG TGAAAGGAAA GGCGAAGGCA GGCAAATACA  
TTATTGAGCT GAAAACAACT TTACATTCOA GGACAGCTTC CAGACAAGCC ATGTAGAACC AGCATGCCTT GGGACTGINT  
GGATGGCAGG GAGACGAGT TCTATGCTGA CACTTCATG CTTTCTSCC CCTTTGGGGA AAGTATGCCT CACGGACCTC  
TAATCTCCC ACTTCTCTGG GGGCAGCACC TGACCCCTCC CGGCAACTNC TAGGCAAGAG CATTCTGTTC CTTCAAATTT  
YTCACCTGAG TCTGAGTCAG AGCATYCCAT CATCAGAGCC TCTGTCAAGG AGGCAGTGCT

SEQ ID NO:1079: (Length of Sequence = 439 Nucleotides)

CTTAAGTAC TGAAATGAA ACACCCCTTG TCCTTCTCGG CGGGGCTTC CTGGTCTGTC CTTTACTTGG CTTTTTCTCT  
TCCCGCTTA GCCTCACCCC CTGTCAACC AGATTGAGT GCTATAGCTT GATGCAGGGA CCCAGTGAAG TTTCTCCGTT  
AAAGATTGGG AGTCGTCGAA ATGTTTAGAT TCTTTTAGGA AAGGAATTAT TTTCCCCCT TTTACAGGGT AGTAACTTCT  
CCACAGAAGT GCCAATATGG CAAATTACA CAAGAAAACA GTATTGCAAT GNCACCATTA CATAAGGAAC ATTGAAGTGT  
TAGAGGAGTG CTCTTCCAAA CAAACAPAA ATGCTCTAG GTTGTGTCAG AGCTTTCACA AGGTAATAAC CTTTCTCTAT  
TNAAATCAGG GTAACCCCTT TCTGTATTG AGTGCAGT

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SEQ ID NO:1080: (Length of Sequence = 419 Nucleotides)

CTGAAGTCCC TGAAATAGG AAGTCTCAAT TAAAAATCA ATTIGTCATA GTCCACATAA AGATAATCAA TACATTTTGC  
 TCTCAGTCCT TGGGATGGTT TTTGTAAATA ATATTATCTT GACAAAAACA AACAGGAAGA TCCCACCCCC AACACATACC  
 ACATTCCAAT GTTACCTGGN ATTAAAAATAT ATACCAACAT GCATCTTTAG GTTACTCTGG TCCATGGTTT CCTCCAGTGG  
 CAATGGAATT TACAAAAATG TAAGACGTAA TAGATATATA ATTATCTTTT TNCCTAAATG AAAGTAGCCT TAAAACTGG  
 TACATAATGG TTCTGGGTT CANTGATCAA AATTATGGAN GTACACTTAA CCTATCTTCC ATTGAGTGGC TTTAAATGGG  
 ACCTTAAACT GTGGACTCC

SEQ ID NO:1081: (Length of Sequence = 411 Nucleotides)

CAGCGTTTAA ACCAAAGGCG CACTAAACCT CGTAAGCGCA TGANCAGATT TAAAGAGAAA GAAAGTCTG AGTGTGCCTT  
 TAGGGTCTTA CTTCCTAGTG ACCCTGTGCA GGAGGGGGG GATGAGTTTC CAGAGCATAG AACTCCTTCA GCAAGCATAC  
 TTGAGGAACC ACTGACAGAG CAAAATCATG CTGACTGCTT AGATTACGCT GGGCCACGGT TAAACGTTTG TNATAAATCC  
 AGTGCCAGCA TTGGTGACAT GGAAAGGAG CCAGGAATTC CCAGTTTGAC ACCACAGGCT GAGCTCCCTG AACCAGCTGT  
 GGGTCAGAG AAGAAAGGCC TTAGGNAGCC AAGCAAAGTG GCTTTTGGAA TATACAGAAG AATATGATCA GATATTTGCT  
 CCCTAAGGAA A

SEQ ID NO:1082: (Length of Sequence = 350 Nucleotides)

CTGTGAGGGC ACAAGTGTAG GTATCTTINC AAGTTCCTA GGTGATCTA GAATGCAGCA GGGTGTAGAT GCTCTGCCTT  
 AGGGGTAGAG AGGTGGGAAC ACTGACAGGT TCTGCAAAC ATCTCTGAAC AGCTGCTGGT GTCTTTTCT GTACTTCAAG  
 TTTACGGCA CATCTGATAG CTGTNCOGAA AGGGAAGAGA GAATTACGTG GGCTAGGCTG GTTGAAGGT TTGNTAAGN  
 TTTGGCTTGA GGGACTTTAA CACGTTTATT TCAAAGTAAT TTGTGTTGT AGCCCCACTA AAGTAATTTT GGGCCAGNAA  
 AGGTTCAAAA TACGGTTTTT CCTACTTAAG

SEQ ID NO:1083: (Length of Sequence = 430 Nucleotides)

GTGAAGTCCA CTGCTTATG GACAGCCCAT TTGCATGGG CCTGCGTGT GGTGCAGCCC AGGGTATGTN AGGAAGGCTT  
 CANAGGAGCT GCTGCTGCCA CAGGTGGTCA CCAGGSCAGA GGTACACTG ACATACCTCC AGACCAGCCC GCTCCACTGT  
 GGACAGGGGC AAGTACATA CTGCTGTTT ACCATGGGGT CACGGCAGAA CTGTINTCAC GGGGTGCTTT GTGATGCCAA  
 ATGGATATAG GTGGGAAGTG CTGGCAGCAG CGGCCTCAGC GTGAGCCAT CTCCCCTCCC GTCTGCTCC GGCTGCCTG  
 TGGGCCTAAT GGTGGCACCG TTTAAGCANC TGCTGTGTGC TCAGCCTGGG GGNCTGAGGG TTTCCATACA TGATCACTGG  
 TTCCTACCA AGGCCTAAT TCCTNCCTGT

SEQ ID NO:1084: (Length of Sequence = 369 Nucleotides)

AATGGAAGAA GTGAAAAGA ACACACAAA GAAATAAAG AAGTAACCTC TTTCACCCAC TGAAATATC TCTGAAAAG  
 ATATTAGCAA TCATGCAGCT TATAAATATC TAAAGGCTA GAATTGAGGA ATTTATAAGA NTAANTTTTT TTTTCAACAC  
 ATAAAATACA ACATGGGAAA TAAGATGTTT TTTACTAACA GGCAACACT TGAGGNGTCC TCTTCAAAGA CTACAGTGA  
 TGAAAGACCA GTTATCCAAA GGAAACGGTT AGTAGAAATA TAAAGTTAGT CCCACACAAA ATTAAAATGG TGCTCAATGC  
 AGATTATCTA TCATTANACC ATTTTAAAG GCAATTTNTT ATTTAAAT

SEQ ID NO:1085: (Length of Sequence = 413 Nucleotides)

ATACCTTINA GCTGGCATAA TTTAAGTTT TAATTATCCC TTAATCATAA GCTGTACGAT TCTATAATTA AAAAGTTAAT  
 GCCTTCTTAA TGCTATNCT AGTAGAAGAA TGATGAGAAA ATAATAGTAT AGATTAGTTT TGGTCTCTAC TCATTTTGCC



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TTCGATTAT ATTACAAC TC CAGCTGGTGA CAAGATGGCT GTGTAAATCT TGAAATCACT GAGCAITCAT TTTAGCTTCT  
 CATTGAAAGG TAGATATTCA GTATGAATTG TAAACTGGCA TTAAGGGAGA AAGTAGGNAT AATCAAAC TT GATCTGAGAA  
 TTACTTGCTG GTGCATTTCC TCAATGCATA GTAATATCCT TAIGANGATG CAGATGCAAA AGTGGGTTTT GGAGGTGGAT  
 AAGGAGGGCA GCT

SEQ ID NO:1086: (Length of Sequence = 277 Nucleotides)

TGGATAGCAT GAGGCAAATT GCCAGAAGAG AATTTCTTTC GCATCCTAGT AGAATAAATC CAAATTATCT TTGTGGTACT  
 GAGGATGCTT GGTTTAGCAC AGTGTAAGT TGTAAACATT TAACAGGCTA TTAATTCACA GTCCTAATT CAATGCTTGC  
 CCGGATTTTT GCTAGAAAAG GATGAGAAGG ATTAAGGTAA AAAAAAAAAA NAAAAAAAAA AAGATAAGGT TAACCAGATA  
 CATCTTAAGA GCTGATTGCT CTTCAITCCC TAACTCG

SEQ ID NO:1087: (Length of Sequence = 360 Nucleotides)

TTTTTTTTTT TTTTITGAG ACATTGTCTC ACTGCGTCGC CCAGGCTGGA GTGCGTGGT GCAATCTTGG CTCCTGCAA  
 CCTCTAAATC CCAGGTTCAA GCGATCCTCT CACCTCAGCC TCCGGAGGGC NTGGGATTAC AGGTGTGAGC CACCGCGCCC  
 GGCAGCAITA TTTTITAAAG ATCTGTGATA GTGCAATGTT TGCTAGTTCT TTAATACAGA CTATATTGTA TTCCATGTCA  
 GTTTTAAAG TTTATTTCCC TATTGATGGC ATTTAATCC AACTTTTAGA TAAAAGGATG TACTGGACAT TTTTATAATT  
 TTTTGGGGG ACCATGTAAG AGTTTTTCTA GGGGGAATTC

SEQ ID NO:1088: (Length of Sequence = 209 Nucleotides)

CTGGGACCAG CTGGAACAGA AGTGGTAAAG GATAACTAGC TACCTGCACC GCCAGAGATC AGGNTCAGGG TGAAGCTGGT  
 TTCCAGCAG GCGAAGTGAA GGAAAGTGGT TNGAAAGGAA GAGGAGGAGC AGGAGATGGT AGGTCCCTCG CCTNTCTCCC  
 NINCTACCTT GGAAATATAA GTGTCAGGTT CATACTTAAC CACCCCTT

SEQ ID NO:1089: (Length of Sequence = 409 Nucleotides)

TTTGTCTCAC AGCTACATCT TCAGAGGTGA GAACCATGCA TGACACAGAG AAGATGCTCA CTGATGGATT TAATGAGTCA  
 AACATTGAAG AATCAATGAG TGCCGGAAAT AACAGGATA GGTGGCAGCA TAGCATGCC TTAAGANCAAT GGCTGTGGAT  
 TCAATCCCA GACCAATCAC TGANTTTCAA GCCACTTTGC CTCTGTGAGC CTCTGTITTC TCATCTGTCA AGTGGCAATA  
 ACAATAAATG GTACGTGCCT CATAGGGGCA CCTTGAGGAT TAAAGAGAG GGTTCATAA AATCAAGTAC TGATTTCAAA  
 ACCTGGCACA TAGTAGGCAC TCAGCACATG GNCCTTATAT ACTTNTGGGC CAGCAGCGGC TGGGGCTCAT CCTCCCTGG  
 CTGGGTCCA

SEQ ID NO:1090: (Length of Sequence = 337 Nucleotides)

GAACCTNTCC CCATTGGAGA GGATGAGGAT GATGATCTGG ACCAGGAGAC ATTCAGCATA TGTAAAGAGA GGATGAGGCC  
 CGTAAAAAG GCACTGAAAC AGCTCGACAA ACCTGACAAG GGGCTCAACG TGCAAGANCA GCTGGAACAC ACCCGGAAT  
 GCCTGTGAA AATCGGAGAC CGGATAGCCG AGTGCTTAA AGCCTACTCA GATCAGGAGC ACATCAAAC CTGGAGGAGG  
 AACCTATGGA TTTTGTITTC CAAGTTTACA GAATTTAATG CTCGAAAAC GCATAAGTTA TNCAGATGG CTCATAAGNA  
 AAGGTCTCAA GAAGAAG

SEQ ID NO:1091: (Length of Sequence = 411 Nucleotides)

CCACTACCAC AGGAAATCTC TATACCTTTC TTGCTTTTC GTTTTAATGT AATTTCTTA AAGCTTCAA GATATTTTT  
 AATCAGGCAT GCTGAAATCT ATCTAACCTA TTAGTCACTA ATTATATTCT TCAAGCCTAT ATATTAATGT TTCTNCTGTT  
 GTAAATTCAT GATCATAAAG TTTTGGACCT GGCCATCAAT ACTAAGCAC TGATATTTAG TTTTAGGTGA TACTTGGGCA

TAAATACAAA CACGGGATAT ATTTNGTCAT AGAAAAAAT GTGTTACTGC ATTATTTTGC ACTTCTGAAG GACTGCAAAC  
 ATTTTTCAAG CACAATAAGC AAATCTTCT TTCAAAAAGG NATACTTNG CACATATGTA AGGTTTGGAA AATGACTAGG  
 NCCCTAGGGA G

SEQ ID NO:1092: (Length of Sequence = 349 Nucleotides)

AAAGAAAATG CCTTGGGAAG ACAGATGCAT TTTTCCCAC TGGTGTGCA ATTGCTCAA TATTTINAGG ATGAATATCC  
 TCACCTTGA GGCAAGTTTT TAAGAGTGAA TTGAATTAC TGGAGCAGTG AACAAATTAT TAGAGTCTGG TATAAGTGAA  
 GAAAGAATC ATGACNGTA AGCTGTCTTG NAGGTACCAG CAACTGCT CTAAAATTAT TATGAAAGG CAAAGGGGTT  
 AGAATAGCCA ACATAACT GAGAGGTTG GAAGACTCAC ACTATCCAAT TTCAAGGTTT ACTGTAAAGC TACAGTAACC  
 AAGGCAATGT GGCCTGGTG AAAAGTAA

SEQ ID NO:1093: (Length of Sequence = 400 Nucleotides)

GGACCTTGT TTACATCTG GATTTCCTT TTTACTTCC TAATGATGTA ATTAACTNC TTCTGTATT TNCATATTT  
 CCTATAAAT GGTAGTTAGA TCTAAAAGCT TGATTTACTT ATTTAGATT TCTAGTCAAG GGTACTCAAT AGATTGTATT  
 TCTTTTGCC TCACACGGAG GTGCATAATG TCTGCTGGC CTGTAGTAT GCTAAGGTTG ATCATTCTGT TCAGGTGGCA  
 TCAGTCTGTG ATAACCTCCT GTAAGAATCG TTCATTAACT TTTATCTAA TGTCTCAAT CATTCATGAT CTTTAACTGA  
 ATCCTGTGA TTTCATTAGG GAATAGCAA ATAATGATTT TCTAATCTG TATTCCTTT CACATTTATT AACTGTAAAT

SEQ ID NO:1094: (Length of Sequence = 414 Nucleotides)

GTCAGTNTC CATAACTGTT TCTGCTGAC AAAGGGGCAG TGGTGTGGT TCINTGGGTC TTGGCCTCTT GCTAGCTGTC  
 ACAGCAGGAG GGTGGCTTTN TGGATTGGTG AAAGTGGTAT CCAGCCAGGT CCAAGAGAGA CAGGGGCAGG GTTTTNCCTA  
 TGCCAAATAT ACTTCAGCAG TAGAAGCCAC AAGATTACAT TATTAAATTG TCCAAGAGT CCCCCAGTC AAACCCAGC  
 TGAACGCCAT TTAGTTATAT NCTGGTGGT TTTCTCTCTG CAGGAATCA AACCAAGGT TCTATGTGT GCTTGAGTTG  
 GGGGCCAGAG TGACAACCTG TAGAAACTA TGTATATCC CAGCTANGAG AACAGAGGG AGGGGTACAT GATAGTAGGG  
 AGTCAAGTTT ACAA

SEQ ID NO:1095: (Length of Sequence = 387 Nucleotides)

GATCTGGCAA CCAATTATGT AAATAGTCAT ATGAATCCTT CAGATGGAT AACACAGCTT TNCAGCTGG TGTGAAATAG  
 TTTTCAGGTG CTCATTCTTT ACTTCATTAG CTTATCTTAT ATCATTAGCT TATCCTCCAT TCAGGTATAA CAGATCTTTT  
 TTTCTGATA AATATGGCAG TTTAGGGAAA TAACTATGG CATAATATGC TAGGCCATTC TTCTAGGCCA CGCTTCTTTG  
 ATTGTAACCT TAAACCTTT ATCAGAACCT AAACAACCTT TCAAAAGATC TATACATATT TNNATCCAAT GTTTAAGGCT  
 ATGAGTAATT CATATGGTC ACTCTTCATT TTNTACCT GATAATGATC TGNCAAAA TGTGAG

SEQ ID NO:1096: (Length of Sequence = 416 Nucleotides)

AACTTAAAGC TTTAGAATGA TTGAGGTAGC TCAGAGCAA AACCAAAAGG AAAGGTGATA TGTAGATGTC TGGGCACTCA  
 CATCATAGGT TTGGATAGCT AGTTTAGGAG TAAGTGAAAC ATTTTAGAAG AGCATTTATG TTAACCTTGA CAATAGGATG  
 GGAGATTCTT AACCCCCCTT GTAATATGCA CGATTGATT CTNAGTTAAA ATACACCACA GTGACAGTGA TATCATCCTT  
 GTACATCTC GCCAAGTCT CTGGCAATGT CAGCATGCC GNCAGCCGT CTGCTCCAT CTCCCCATC TCATTATTCC  
 CGATGCTC TCTGATCAGC CGCTGCTG CATTTGCTC AGCTGTGTC AGCTGCTG CTTCCTGTC CAGCAGCAGG  
 CTCGCAATG AGNCCC

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SEQ ID NO:1097: (Length of Sequence = 406 Nucleotides)

CTGACCTCGT GATCCGCCCA CCTCGGCCTC CCGAAATGCT GGGATTACAG GCGTGAACCA CTGCGCCCGG CATGATTGGC  
 ATTTTGGGCT AAATAGTTTC TGTCCACAGG ACGTCTCTGT GCAGTGCAGG TCTTTTAGCA TCCTGGCCAC TCATAGTGCC  
 CGTGGTTCTC AGTAGAAGCT GTAGAGGATG TTGGGAAATT GGGGTGGGTT GGTCCAGATG CCTGGCATCT GTCTCAGGGT  
 AAGGGCTTNG GAGGCTCAAG TGCAGAGTCG TATCTGGATG CCAGCAACAC CCTGTGAGA AACTTTCTAC TATGGTATGC  
 TCATCATCT CTGAAGATGT CAGGGCCTGT TTGTTTGTTT GCCTGTTTCT CTCACTTTIG CCTTATAATC AGTTCTTCCT  
 TGTGG

SEQ ID NO:1098: (Length of Sequence = 326 Nucleotides)

GGCCCGCCCG CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCATGAGCCA CCGCGCCCGG CCATGTAACA ACTTTTATAA  
 AGTTATGATG TGATGAGTTT TGGTGTAAATG TTTTCCCTC CTCTACCTAA AACCTTCAT GCCTTCCCAT TGCTCTAGA  
 AAACACTCCC CAATCTGAAA CATGACCATT TTCTGTTTIN ACACCCAGAT TGCTCCAGAC TTGGTCAGTT GGTGTCCCTC  
 CAAGCTGGTG CTGGTGTCTT TCCGNCATNC CCTATTAGT TTTGAGCAC CTGGACCAGT AAGGTGTCA GTCTCACTTT  
 GCACTT

SEQ ID NO:1099: (Length of Sequence = 342 Nucleotides)

GAAACGAAC AAGTTTCAGC AGTCTAGCCT TTGGATGACC TATTTGAAA CCAGTGAAAG TCGTGGAGGA ATGGGCAAGA  
 ACCACCTCAT GATTCTNCAG GCCATGCTA ACGAACAGCT CATGCTACA ACCAGTCCAG AGGTTTATT CCCTCTACTC  
 CGAGCAATGA AATAGACCTG AGTTATGCTT CCTTTCATTT AATTTCTGCA GATAAATAGT TTCTGAGCA ATGGATGCTA  
 TGCTTGATA CAGTCTCCA CTTTGACGC CGGAACGCC TTGGNCCAC AGTTACAGAA AAAATGTAAA CTCAGAGTGA  
 TCCTTGTA TATTGCTATA GA

SEQ ID NO:1100: (Length of Sequence = 301 Nucleotides)

ATCGCTGAG CCCAGGAGTT CGAGACCAGC CTGGGCAATG TGACAAAACC CAATCTCTAC AAAAAATACA AAAGANTTAG  
 TCAGGTATGG TGGCGCATGA CTGCAGTCTC AGCTACTTGG TAGGCTGAGG TAAAGGNTC ACCTGAGCCC GGAAGTAGA  
 GGCACAGTGA GCCATCATTG TGTGCCACTG GACTCCAGCA TAGGGAAGGG GACTGAGACC GTCTCAAAA AATTAAATAG  
 AAAGTCTTCT TTTTAAAAA TNCGTCAATT CATGAGAAA CTGCACTCAC ACATAGTGTG T

SEQ ID NO:1101: (Length of Sequence = 300 Nucleotides)

TTAAGTCAAA GGCTAGAAAT GATTAACTT AGTGAAGAAG ACATGTCAAA AGCCGAGAGA GGCCAAAAGC TAGGCCTCTT  
 ATGCCTAACA GTCAGAAATG CAAAAGNAAA ATTATTGAAG GAAATTAAAA GTGAAACAAC CTTATTGCTG ATATGCAGAC  
 AGTTTTAATA TTCTGGATGG AAGATCAAAC CAGCCACATT TCCTTAAGTC AAAGCCTAAT CCAGAACAAA ATCCTAACTC  
 TCTCAATTC TTACGANGGC TGAGAGAGGT AAGGAAGTTG CAGAAAAGTT TTGAAGTAGC

SEQ ID NO:1102: (Length of Sequence = 174 Nucleotides)

GAGATCGAGA CCATCCTGGC TAACACGGTG AAACCCCTC TCTACTAAA ATCCAAAAA ATTAGCCGGG CGTTGCGGCT  
 GCGCTTGIN GTCCAGNTA CTCGGAGGC TGAGGCAGGA GAATAGCGTG AACCTGNGN GGCGGNTTG CAGTGAAGCC  
 GAGATCGGCG CACT

SEQ ID NO:1103: (Length of Sequence = 260 Nucleotides)

ACAAGGTCTT GCTATGTTGC CCAAGCTTGT CTCAAACCTC TGGTCTCAAG CAATCCTTCT GCCCTGGCCC TCCCAAAGTT  
 CTGGGTATTA CAGGTGTGAG CCAGCACTCC TGGCCCATCA CAGTCTTAAA ACCAAAAGTT CTGTGTCCGA GGAAACCAG

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GAGTGATTGG TCACTCTATT TATGACTCAT AGCACTTACA GGCTACTTCG GCAGGGACTT NGGGTACCCC TGTTCCTGGA  
 TGGCACATCA TTATCAGCAA CAGGAACAGT TTCCTGAGC CCTGGGCCCT GGAGAATCTC TAGCTTAGCT ATTTTAGACT  
 TGGGGTCAA GAAGAGAGGC TCTTTGCCAA CTCAGCAACA

SEQ ID NO:1104: (Length of Sequence = 400 Nucleotides)

GGAAGCAAGA CAAAAAGGA CAGAAAAGCT GGTTTAGGTC TTCAGTATGT TTATTTGTCC CTCACATAGC GGCTTGATCT  
 GTCTGCCTGT GTGTTACAT AGTTAACCAG AAACGCTAGG AGGAAGTTGT ACCAGTGGGA TACCTCCTTA GGTGCCAAG  
 TTTTATTTTG AGAAATAATA TTAATTTCCT CTCTGAAAT AAAATAATAA TAATANGANT GAAACCCCA AACCACAGTG  
 TGAGTCTCAG GTTAGCATTT GAAAACATCT CCAGAGACAT TGTTATTCCT CAGGAGGTTT CCTTGACTCC TTAAATGTGG  
 CTGATGTTTC ATGGTTAATT TATTTANITT TAATAAGGTA TGAGCAATCG AAGGGGCTGA TCATCTGAGG TTTTGTACCT

SEQ ID NO:1105: (Length of Sequence = 380 Nucleotides)

CCCAGTGCAG AGGGTGACCA AGCCTGGGAA GGCCCCAGGG GTCCAACACC AAAATTAAAG GTTTATTATA CACAAGAGGA  
 CGTCTGTCC CTCANAGTGG CTGGCCACCC TCCCCACTCT GGCCAAGGTC CTGCACAGAG GTTTGTCTC AAGGGTGACC  
 CTCTTGGCC GCCCAGAGCT AGACCTCCGG CGGAGAGGCA CGCAGTCCAT GCTGCTGGCA CAAGTCACTT GGCAGCTNC  
 TCAGCCACCG NTTTGGCATC TTGTCTTNA GTTAGGCGCC TTNTTGCCA TTCAGACTTG AGTTCCAGCC ACTCATAGAA  
 TGGGACGTCC ACTATCAGGA AGNCTGCAGC CACTTATGTG TCGCCGGGCC AGAACAAAGG

SEQ ID NO:1106: (Length of Sequence = 334 Nucleotides)

TGTATCINTT TGANTCTAA ACCCTTGCTT TCCCCACTGC AAATGTGTTT GGCTAGAGAG CAGGCIATTA AGACATTCTA  
 GCCAAGCCAA TTTCTGAGA GTNCTGCAGG TACCAGGTGT TGCTGGAGCC CAGCATCTGC TCAGAGGAAG GCAGAGAGAC  
 CCAGAGGAAC CCAGATGAG ACACTCATTT TTGCATCTC AGTTCCAAA TTAATTTTNT AGCTCTGGT TAGGACCGA  
 NTTCAGAGA CCAGGCAGCT NTCCAACAAG AATGCTGACA GGTTCATGT TCTCTAGGG TAGCTGCTGN CTAAAGAATA  
 TTTGATTTTT TGGG

SEQ ID NO:1107: (Length of Sequence = 346 Nucleotides)

CTCACTTTAG TTTGAGTCAA TATCTGAGAA AAAAAGATG GAGTAAAGC ACAGAAAGCA AAACCTAGCT TAGAAAATAT  
 TTCTAATTC AAAAAATGAA CAAGTCAGAT TCTGTAAAGA TATCCAGTGA AATCTTGAAG AATATTGTA TTGATTATTA  
 ATTAANCIGA TTGGAAAGTG ATCTTGGGTT CACAATGAGG TTGTGAACA AGTAGCATTT TCATACAATT GCAAACCAAT  
 TCAATGTTT TNCATACACT GTTACATTT CTTTNCAAA TTTGATTCT TCTTCGTGAT CCTAGTCAA TTCTGCCTTC  
 TCAGTAAATC TTTATCAAGT TTGCAG

SEQ ID NO:1108: (Length of Sequence = 410 Nucleotides)

TCCTGGCGAC GTGGTCCCGG TAGGAGACTT AGACCTGAGC TGGATCTGTT GACCCCAAAT TGTGCTTTTC CCACCAAGAA  
 GAAAGACAGG GAGAGAAACA TTAGTACAAG TNCTGAAC TAATATAGCA GAGAAGAAAC ATAATCTCTG AATCACACA  
 GCTATTCGGT TTCAAAGCGT TCCTAGCGCC CAGCTCTCT AACTCTGGC CAGTGTCTT GACATTATGG TAATACATA  
 AGACTTTGTT TCCGCTGGTG TGTGCTGTG GGAAGCCTCT GACTCACCTC CGTCTCCAG TAGCACCTG TGCAAGCCTT  
 CCAATGTGCG CCTTATTGCG TGGCGGGAA GATAATAGTT TGGATTNCTC TGCAAGTCAG ATAATAGCTG TATCCACTTA  
 CTTGGCACAT

SEQ ID NO:1109: (Length of Sequence = 352 Nucleotides)

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CGCTCGTNTG TCCACACAA ATGTTTAAGA AGTCACTGCA ATGTACTCCC CGGCTCTGAT GAAAAGAAGC CCCTGGCACA  
 AAAGATTCCA GTGCCCCGTA AGAGGCTCCC TTCCTCTGT GGGCTCTCCT AGAAAACCAG CGGGACGGCC TCCCTGCTGA  
 TACCGTCTAT AACCTTAGGG GGGCTCGGG CAGGCAAACT CATCTCGGTG ATGGCTGTAG ATGCTAACAC TGGCCAATTC  
 AATGNCACAN CTACTGGTTA CCCCTTTTGA GGGGCAATTC TCCAGACAGA AGGCCCTTG AAGCCTAGGT AGGGCAGGNT  
 CAGAGATACA CCGTNTTTG TCTCGAAGGC TT

SEQ ID NO:1110: (Length of Sequence = 218 Nucleotides)

GTITNTTCA TTTATTNNCT CCCCATAAAA CAGTATGTAC AAGGGTTTGA TTCAGGGGAG AGAAAGGATA TATGAAGACA  
 CATTCTTCCC TCTTCTATTC TCTTACCTGG TTAGAAATAA ATAGGCATAT AGTCCNGTTT ATTATGGGCA GGAAGGTAGG  
 TAAAGATCAC CTAAGTNCIT ATGGCGTGTG GGCTTTGGCA CATGGAGAAT GAGTTTTT

SEQ ID NO:1111: (Length of Sequence = 211 Nucleotides)

TTTGCTTTAT GAAGAAGCTG GCCTAGGTAG GGTTACAAAT GGGTTTTACT GAACCTAAAC AGCTAATTGC TACATCTCTG  
 AAAATAATCA GAATAGAAAA ATAGATGGAA AAATTTCAAA CCCACTGTAA GAGACTAACA TAAATCCAAT TCCAAAAGCT  
 GTTAATCATA CCATCTAAAA AGAAAACGTG CGACTAATCA TGTGTTTACA A

SEQ ID NO:1112: (Length of Sequence = 360 Nucleotides)

CCCTATAATA GTCCCGTGAA TAGGGCTAGC AGTGGGATTT TTGTGTTATA GCGAGGAAA TAAACACTCC TTTTGCTGAG  
 ACTAAAGAGC CAGGTTGGGG TCTCTGGACA CATAGTGCAA TCAAGGGAGG CTTAAGACAG CAGAGGCCCT CAGAGAAGAC  
 GTTCATTCTC CCAGCTACTT GCTAAGCAGC TNCOGTGTGA TCTGGGCAGT CCTGGGCACA CCAGTGGTGA AAATACATGG  
 TCTGCGCTGC CTGCGTGGAG CTTCTATTTT CCTNATGGGA GAATGCTGCT CCATTTTGTG ATTGGAGGAA CTTTTTGCAA  
 GCAAAGCCTN TTTGGGAAA AATGGCGGGC TAGAAACCTG

SEQ ID NO:1113: (Length of Sequence = 448 Nucleotides)

GCGGGTACTG CGTTAGTGAT TAGAGTTTTT NCCCTGCCGG AGGTGGGATA CACGGTAGCA TCATGGTGA GGAGGTACAG  
 AAACATTCTG TACACACCCT TGINTTCAGG TCGTTGAAGA GGACCCATGA CATGTTTGTA GCTGATAATG GAAAACCTGT  
 GCCTTTAGAT GAAGAGAGTC ACAACGAAA AATGGCAATC AAGCTTCGTA ATGAGTATGG TCCGTGNTTG CATATGCCTA  
 CTTCAAAAGA AAATCTTAAA GAGAAGGGTC CTCAGANTGC AACGGGATTC ATATGTTTAT AAACAGTACC CTGCCAATCA  
 AGGACAAGAA GTTGAATACT TTGTGGCAGG TACACATCCA TACCCACCAG GACCTGGGGT TNNTTTTGAC AGCAGATACT  
 AAGTTCNGA GGATGCCCG TGATCAGNTG CACAGTCTA GCGGTGGC

SEQ ID NO:1114: (Length of Sequence = 268 Nucleotides)

GGCGCCAGG TGGTGCCATG NCTTNTGNT CTGTGCGTGG GCGATGTGG TCATCAGCCT GAGACCCAGA TAGGCTGAAC  
 CCGACTGAT GTAGGTTGCG CACAGGAGGG ACGGAGATCT TGCCTGGGCA GGACGCGCGG GCGGAGCGC CACTCCCTGG  
 CTGGCAGGC ACCATCACCT CGTGGACGGG CCGGTNATAC AGCCACGGG GCACACCGTG GNTCTCNGN CAGCCTGTG  
 CGAGCTTTGA TCTCTTGTA GACAAAGT

SEQ ID NO:1115: (Length of Sequence = 342 Nucleotides)

ATCAGTGCCT TCTTCAGCTC TATCTGGGAC ACCATCTTGA CCAACACCA AGAAGGCATC TACAACACCA TCTGCCTGNN  
 AGTCTCTCTG GGCTGCGCAC TCTTGGTCTT CATCACACTC CTCTTCATCT GTTGCCATTG CTCTGCGAGC CCACTAGGCA  
 AGAGGGGCCA GCAGCCAGAG AAGAAAAAGA AGAAGAAGAA GAAGAAGGAT GAAGAAGACC TCTGTTCTC TGCTCAACCC

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AAGCTTTCTC CAGATGGAGA AGAGACCATC ACTGCCTGTT TAGTTAGGCA GGAANGCAGA GGTGTTTCTT TTCTGGGGCT  
AAAGNTCTCT TCTGACCACA CA

SEQ ID NO:1116: (Length of Sequence = 416 Nucleotides)

CACCTTTGGG AGGTAGGGAT CATAGTTCCA CTTTATTGAT GAGGAAACT GTAGTGCAGA GATGGCATACT ACTGTCCAAG  
AACATGGTGG TGGATGGAAC CCAAACCCCA ACTTTTGCTC CCATGINCTC TGTCCACTGG CTATGGCTCT TGCCCCGTG  
TACAGATACA GGCTCTGGAC AAGTTCACCA AATCCCTTAG GCTTCAGCCC CCTCATCTGC AGAATAGTGG CTGGATTCC  
ACCATCTTCA AGGTCCCTGC CAGCTTINAT TTATTAAAT TTGGATTTAT TAAGCAGGAA AAAAAGTAAT GGGAGTTTGT  
GGGTACCAAT GGATTAAAGG GGGTAAATC TGGNGGCTNG TGAGTAAAT TAGGGTCCCC AAATGG

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AAGGACOGGG ATTCTGATGA AGCOGTGTTT CTCACTGCT GAAGTTTCCC TTTGGAGTTC CAAAGTAAAG GACACATAAG  
CAACACTTCC AAAAACAAGG GAACAAGGTG GTTATTGTGA AAAACAGGAA ATGGTGCATG TCATTGAGAA CTATTTTAA  
GCAGCTATGA AAAGGGAAAA AAGTGCCAG TTCTTGATTT CTTAGATACT GAAGAGGAGG TAGCATTTCA TTATCAAA  
ATAAGGAAAA TTATTCACCA TTGTGAAGCT CACCTAGAC TATGAAAT ATATTCAGT CAGAGCAATT ACTTCTGTCA  
TTACCTGAAG TGATCAGTAT CTATCTTCT TGTCATAGCA TGCATCTCTC AAAAAGGCCT CCACTCCTTT CCTCACATC  
TGTGGTCATC ATGATT

SEQ ID NO:1118: (Length of Sequence = 379 Nucleotides)

GACAGCAGCG TGTCCAGGC GGCTGTGGAG GTGTTGGGA AGCTGAAGGA CCTAACTGC CCTTCTCTG AGGGTCTGTA  
TATCAGAG CCAAAGACAA TTCAGGAAT GCTGTGCAGC CCTCAGAGT ACCGCTTGA GATCCTAGAG TGGATGTGTA  
CCCGGGTCTG GCCCTCACTG CAGGACAGT TCAGCTCACT GAAAGGGGT CCAACAGAGG TGAAGATCCA AGAAATGAGC  
AAGCTGGGC ACGAGCTGAT GCTGTGTGG CCAGATGACC AGGAGCTCCT CAAGGGCTGT GCCTGCGGCC CAGAAGCAAG  
CTACACTTCA TGGACCAATT GCTGATACC ATCGGAGGC CTGACCAATG GGTGCTCA

SEQ ID NO:1119: (Length of Sequence = 233 Nucleotides)

CAATATTCAA GAGTCTTAT TGAAGACTG AGATGGGACT TCAACTCAG AGGATGTGGG AATCCAGCT CAAATGATAC  
AGGATAAACT GGGATGGGCT AGGATGGACA GGCTGTGGAT ATGGGAGTCA TGGGTCAAAG TCTTATCCA GATGGCTCCA  
GGTACAGTGG GCTTCTGGG CTGGAAGCTG GTTCTCCCC ACTTCATTCT GCTCAAAGCT TCTTGAAGGA GCT

SEQ ID NO:1120: (Length of Sequence = 325 Nucleotides)

GAAAAACAA CCATACCTT NCTTTTGAGG AAAACTTACA AACTTTATAA AGAATAAACA TGAATCINCT TAGAAAGTTC  
CAAGATAACA TACACAATG ANTCACCTCT TCATATATAG GCACCACACA CATAAAGATG TAGCCTAAAT CACAATCACT  
TCTCACCAGG GATGGAGATA GGAATTTACA TTCTTGACTT CATTAAGTCT CTAATTTGGC AAAACCTCC AAGCCTTTTA  
TACACATGCT GCGTGTAGGC CAGATCTCAC TCATTCTTAT AATGTGCAA ATAATATGGA GACCAAAGG GCAGGGTTTT  
CATTT

SEQ ID NO:1121: (Length of Sequence = 161 Nucleotides)

ATTAGTATTT TTGTCTGAT GTCTAGGAC TGTTCAACAA CAATTTTTC TGTCTTCTT TATTCTTAT TTGTATACA  
ATGGAAGCAC AATGTATATA GGAAAGGTAA TTTAAGCTA ACAACCACTG CACAGCCTCA GGTTTTAAAT TACAACCACA

G

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SEQ ID NO:1122: (Length of Sequence = 181 Nucleotides)

CATCTTTTTC CATCAAAGTA CTACCAAGTA AAGAATTAA AAATTACTTG TCTAGTCATG ATATATTTTC CTNCTGCTGC  
TGAAAAATCC CTGCTCTATT ATTCATGAT CCTTATCAT TCATTGTATG ACACTGACAG CAACTTGCTG AACAAGTTTA  
AGAATAGCTG ATATTTACTG A

SEQ ID NO:1123: (Length of Sequence = 174 Nucleotides)

CCCTAGAGTT AAATTCACC CATGAAACAT CAGCCACATG TCATATCAAT TCAAGTGTGT AACATTGATA TAATCGGGTA  
CACCACAGCA GCACTGACAG AAACAGAAAT GATTGAGAGA AAGCCAATTA AAACAGCCAG GGGATAAAGC AGATCTGTAT  
GACATTAGCT TTTT

SEQ ID NO:1124: (Length of Sequence = 232 Nucleotides)

CITTTAGCAG AGACGGGGTT TCACCATGTT GGCCAGGATG GTCTCTTGAC CTCGTGATCC ACCCGCCTCG GCCTCTCCAA  
GTGCTGAGAT TACAGGCATG AGCCACCGCG CCTGGCCCGAG GGAAGGCATT TTINAAGAAA TAATAGTTGA ATTGAGATCT  
GATAAAGAA GTAGGAGCAA AATNGGGGGG GTGCGATTTT CCAAGAAGAG AAGACAGTAC ATATAAAGGG CT

SEQ ID NO:1125: (Length of Sequence = 233 Nucleotides)

GATACTATGG GTTCAGTGAC ATAGAGACAC AATTGAATTA GCAATGAGCT TCACTCAGGA GCCAGAGAAT GGGTTTNTNT  
CTAAGAGATG TTTTAAGTAA CATTAAATG GCACTGCTGA TTGATACCAG CATCAGGAAG CTGAGGACAA GAGCTCTCTG  
AGAAGGAAGT TGCCATATTA CAGAAGTGAG GTGACCAAGC ACTTNTTGTA GGTCTGTACA TTTAGACATT AAT

SEQ ID NO:1126: (Length of Sequence = 258 Nucleotides)

TTTTTTTTTT TCCTAGGGGC CGCAAGACGG CTAATTTATT ATAATTCCTC CGCCGCGATT GCCCTCTGGC GCCA...JTCGC  
AGAACGGAGC GCCCGGGATG CAGGAGGAGA GCCTGCAGGG CTCCTTGGGT AGAACTGCAC TTCAGCAATA ATGGGAACGG  
GGGCAGCGTT CCAGCCTCGG TTCTATTTA TAATGGAGAC ATGGAAAAAA TACTGCTGGA CGCAGCAT GAGTCTGGAC  
GGATTAGCTC CAAGAGCTCT CACT

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GTGTGAATAG GCAAGCACTT TGTGTGTGT ACTAAGGAAC TCAAAATGAT AGGCTTTTGT TCACCATGTG CTTCCAGGNT  
CTCTGTGCA TGAGCAGAGA TAGAGGATCT TGCAAAACA ATTAAATGCT CTAGCCATAA GTAGTGCAAG TTTCNTTGC  
TTGAAATTTA CTGCTGATAG CCACTTGGNC ACACCTTACT TCCAGAGGCT AGGAAGTACA GTTTTCCAC AGTCTAAGAA  
TGAAAGAGNA TTAACACAG TAATGCATAG CACTCATACC ATGGATGACT GGATAATTTT AAAAGAATGG GAATATGCAA  
G

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ACAGCTCAAT GACTTATCAC AAAGCAAAGC CCCAAGAAGT CACCACCCAG CTCCAGAAAT AACACATTGA AAAGCTAGAA  
AAATCTCAAA TTGACATCCT AACACCACAA CTAAAGGNTC TAGAGAACCA AGAGTAAACA AACCACAAAG CTAGCAGAAG  
ACAAGAAATA ACCAAGCTCA GAGCAGAACT GAAGGCAATA AAGACACAAA AAACCTTTAA AAATAGTCAA TGAATCCAGG  
AGCTGTTTTT TTGAAAAA

SEQ ID NO:1129: (Length of Sequence = 163 Nucleotides)

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CAGTGGTACA GCAGCAGCAG ACACGCATCG CAGAGCTGGA GAAGACGTCA GCTGAACACA AACACCAGCT GGGGAGAGA  
AGCAAGACAT CCANCTGCTA AAGGCATACA TGCATGCAAT CCGCAGTGT CACCCCAACC TTCAGAACCT GGAGGAGACA  
ATT

SEQ ID NO:1130: (Length of Sequence = 382 Nucleotides)

TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTACTGT TCAAACAGCA ATGTTTAGTT GTACAACACA TAAAGTCTAG  
CAACAATTAC AGGNCCAGTT TGAGTGTCTG TTGCTTGTT TTCAATTGGG AAATTTAACT GTATGTAC CGTAAGATTG  
GCTGGGACTG GTAACATTGA AGAAACGGGT TGINCITGCA TCCCTAGGC GTGGGCTCT TGCTCCATCA GGACTTGGTT  
GTAGATGAAT GGCCACAAG TCACCAGCCT TTGAGCAAGT TGTGTCCAGG TGGAGACAGG AAGAGGGTGG GCAAAGGGGA  
ATTCTATAAA GACACAGTGT NTGGGGCAGT GGCAGTCAAC ATTGCAAC ATTCATGCAT CT

SEQ ID NO:1131: (Length of Sequence = 406 Nucleotides)

ATGCTAATTC AGGCTCCACA GATAGINCITG GTGATGGGT TACATTTCCA TTAAACCAG AATCCTGGAA GCCTACTGAT  
ACTGAAGGTA AGAAGCAGTA TGACAGGGAG TTCTINCTGG ACTTCCAGTT CATGCTGCC GTATACAAA AACCCAGAGG  
CCTGCCTCCT ATCAGINATG TGGTCTTGA CAAGATCAAC CAACCCAAAT TGCCAATGCG AACTCTGGNT CCTOGAATTT  
TGCTCGAGG ACCAGACTTT ACACCAGCCT TINCTGATTT TGAAGGCAG ACACCTGGTG GAAGAGGCGT ACCTTTTTTG  
AATGTTGGGT CACGAAGATC TCAACCTGNN CAAAGAAGAG AACCCAGAAA GATCATCACA GTTCTGTAAA AGAAGGTGTA  
CACCTG

SEQ ID NO:1132: (Length of Sequence = 400 Nucleotides)

ATTTTTGGTT ACTTCAGGCA GGAGGGTAGA CATAGCACTT ATCTGGATTG GATGTAGCCA CAGGATTAGA ATTGTTGGGT  
CATAAAATAT GTACATGTTT AGCTTTAGTA GATCTTGCCT AGAGTTTAAA AAATTAAAAA TTAAAATATT TTTTAAATTA  
CAATAAATTC AGCTAATTTT AATTTTAGAT AATTTTATA ATGTAGTTGA TCTTGGTTT AACCAGAGCA TGINGCTGGA  
TTTINCTCCC CAATCGAACA CAGTAGAGAG AGAAGGTGGC GGGTCTTAG TGATACCATG CACTTTTTTT TAGAACTTCA  
GTGCTGTATC CTTTATTGA CAATGTATGA TGAAAATAC TAAAGAAGGG ATNGTGGTGG TGGTAGGGA GGCAGGAGAG

SEQ ID NO:1133: (Length of Sequence = 347 Nucleotides)

CCCAGGGGCG GCCATOCATG GACGAGCTCA TCCAGCAGAG CCAGTGGAAC CTCCAGCAGC AGGAGCAGCA CTGCTGGCG  
CTCAGACAGG AGCAAGTGAC AGCGGCGGTG GOCACGCGG TGGAGCAGCA GATGCAGAG CTCTGGAGG AGACCCAGCT  
AGACATGAAC GATTTTAACA ACCTCTGCA GCCATCATC GACACGTGCA CCAAGGAGC CATCTGGGC GGAAGAAGT  
GGTGTTCAG CAATGCCAAG TCCCGCGC ACTGTAGCT GATGGCGGN CACCTCCGA ACCGCATCAC GGCTNATGG  
GGCACACTTC GAGCTGCGG TGCACTT

SEQ ID NO:1134: (Length of Sequence = 389 Nucleotides)

GGTCCAGGCC TGCAAGACTT GCCTAGTGAG AAGATATAGG AATGGGAACC CAGGTAACAG TCTGGCCACT TTNCCATAGG  
GCTGCTGCAG TATGCCAGG GOCGCTCCA GTCTCTAGTA GCCTCANATT TTCCAGTACC TGGAGTTATC ATCAGTGAAG  
CCTGTGAAC AGCAAAGATG GCAGCCTACC GTCCTTTG GAAGCTTTG CCTAGGGAGG TATGAATGAN CTNTTGTGCT  
GTCAPACAC ACCGTAGGA GGTGGCTGA GACCCAGTT TGGAGTTT TCCCTAGG GAGGAATGCC ATGCGAAG  
TGCTTAAAAA AGCAGTCTGG GCCTCATTTT TATAGAGCAG CTGTGCTAAT GCTGAGGGT CCACAATCA



SEQ ID NO:1135: (Length of Sequence = 402 Nucleotides)

GCAGAGGCTT AAAGAGTGCT TATTCACCTGA GGCTTGCCCT TNCCTACTCC TTCCTGGGAA CCCATTTGGC AACAACTGAA  
GAAACCTAGG CCAGCCTNCT TGAAGATGAG GGACCAACGG AGAGAGAGGC TCTGCTGTCC TAGCCCTCCC ACAGAATAAG  
TAAGCCTAGC CAACACCACG TGGAGCAGAG ATGAACCATC TCAGTTGAGC CCAGCCCAAA TTGCTGACCA AAAGAATTGG  
GAACAAATAA ATAATTATG TTTTAAGCTA CTGTGTTCT GGGTGGTTTT GTATATAATA GTAGCTACCT GATACATTGG  
GATGACCCCA ATTACTTGAA CTCTCTTAG GCCTGTTTTC TCACGTGCAA ATAGGGGATA ATTTTAGTAA TTTNGGGTTC  
CT

SEQ ID NO:1136: (Length of Sequence = 381 Nucleotides)

CAGGTGGGAG CCACCACGCC CAACCCAGAA CTCCTTTTAT TTTGCAAAAT TGAAATCTA CCCATTAAAT AGCAACTCTN  
CTTTCCCTT CTCCCCAAG CCTTGGCAA CTGCTTTTC ATTTCTATGA CAATCTCTAC TCTAGATACC TCATAGAGGG  
TGAATCATAC AGTATTGTG CTTTTATGAC TGGCTTATTT CACTTAGCTG CTATATTATT AATACCAGCT TTCTGGGGAT  
ATAATTCACA AACTGCAGAA TTGAATGGTT TTNAGTCTAT TCACATCGGA TATGTTTTTG AAGAGACAGT AAAACCAATC  
CTTTTTCCT TAGGTCTCA GACACACACA TGCTTCTTTC TCTGGCAAGT CCGTTATAA A

SEQ ID NO:1137: (Length of Sequence = 325 Nucleotides)

TATTTTTTGT ATAGACAGGG TCTTGTTATG TTGCCCCGAC TGGTCTCGAA CCCCTAGTCT CAAGCCATCC CCCTGCCTTG  
GCCCTCCATT CCTCTACTTT ATACCACGGT TATTCACCAA GCTTGCTTTT GTTCAGTGTA CTCTCTCATG GAAAACTGA  
GGTGATATTT ACCCTGGTTT TTCTACCACT GGTAACTGT CGCTAGTACC AGCTCAAAA ATAAGAAATG AATAAATGAG  
TGATGACTAT CACTATGTG CTCAGGCTGG ACTTGAACCC CTGGGTTCCA GTGATCTCC CGCTCAGCC TTCCAAGTAG  
CTGGG

SEQ ID NO:1138: (Length of Sequence = 422 Nucleotides)

CAACACACAT TAGCCTTAAC AACAAAGAGC TAATCTTATG TAAAGAACTC TTACAATTCA GAAAGAAAAA GATCCTAGTG  
AAAATGTGGG CAAGAGATAG CAAAAACCA GCCATATGAT AATAATAGTC AATAAGTGAA TCTGAATGAT GTTATCTNCT  
TTTGTCATTT TAGAAATACA AATAAAATG ATGATGAATG CNCTTGCTTA CTAAATTAGC AAAANCTGGG AAAAGATGAT  
GATATTCAGG GTCAGATAAA GGGAAAAGGG TGCCCTTCTA TTGCAGTTTG GAAAGTAAAT TGGCACTGAC TTTTAGTGGG  
GATAGTCTTG TAATATGGGT CAAANGTCTT CAAATCGTGT CCACATTTTG GGGCCTGCAA TTCCACTTCT AGGGATTTAT  
TCTAAGGAAG TACCTAAAAA AT

SEQ ID NO:1139: (Length of Sequence = 367 Nucleotides)

ATACCGAGAA GCATGCAAGC GGTGGCTCCA CCGTCCACAT CCATCCCCAA GCTGCTCCTG TTGCTGCGAG ACACGTTTTG  
GATACACTCA TTCAATTGGC CAAGGTATTT CCCAGCCACT TCACACAGCA GCGGACCAA GAAACAACT GTGAGAGTNA  
TCGGGAAAGG GGCAATAAGG CCGTAGCCC ATGCTCTCA CAGTCTCCA GCAGTGGCAT TTGCACAGAC TTCTGGGACT  
TATTGGTAAA ACTGGACAAC ATGANTGTA GCGGAAAGG CAAAGAACTC CGTGGAAGTC AGTGCCAGTG ANGCGCTGGC  
GGTGAGGGGG TAAACCTTTT NCATACAGCC TTCGAGGCT CTCCACT

SEQ ID NO:1140: (Length of Sequence = 412 Nucleotides)

ATCCAAAGGA TATAGGCAAG CATCAGATAC AGCCAAAGCA TTCTTTTCT AAAAGAGTCT GAACGCATCT NATGCAACAC  
CCAAAGTAT CCCTTNTCT CTGCTACAG TATGTTTCT CTTCGATAA AATCAATCT TATGACAA TATATGGLA  
AATATCTTAC AAAAGGAAGT CATTTCATT TTCTAACATC TTTTACATIG CACTAATTAC ATGGTTTTAA TGACTATCCC  
TAATCTTCAT CCAACTACAC CCATGAATT TNAGTTTAT TTAATCAACC TAGTTAGACC AGATATATCC TTCTAAATC

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ATTGTAGAT AGAGGATTCT CCTTTTGTCT AGTAAATACC ATTAACATAT TINCAGANGG CCTGGTCTAG GGTCAATTAT  
TCCAGGGCCT CT

SEQ ID NO:1141: (Length of Sequence = 410 Nucleotides)

GTTAACCTGT GGCGGCTCC GGGTATCCGG CGCCTGANGT TTTAGCTGCG GTGGGGGGG CAGTCGGGAC CGACTNAAGA  
TGTCATTTGT CAGAGTGAAC CGCTGTGGTC CCGANTTGG TGTAAGAAAG ACACGGAAAG TAAAGAAGAA GAAAACTTCA  
GTGAAACAAG AATGGGATAA TACCGTGAAT GATCTAACCG TTCATCGGGC AACTCCTGAA GATCTGGTAC GCCGTATGA  
AATACACAAA TCGAAGAATA GAGCATTAGT AACTGCGGAA CTCCAAGAAA AAGCTTTGAA GAGAAAATGG AGGAAGCAGA  
AACCAGNAAC TTTAAATCTT GAGAAAAGAA GATTGTCTA TCATGAAGGA GNTTCTTTC TGATCAATAC CAGATGCAAA  
GATGTGTGG

SEQ ID NO:1142: (Length of Sequence = 392 Nucleotides)

TTTTTTTTT TTTTTTTTT TTTTCNCGG ATTGAATGTC TTTATTAAAT AAAAGAGTAA ATGGTAGCAC AAATCACCAT  
CAATATTTTT GGAAGGATTG GGGACAAGAT GTCAGTACAG AATATAATTN TCCATTTCAG GGTCTCAATG TAGCTGAAGA  
ACTGTGCCCA CTGATCAGTA TTACGTATTG CAAATGCAGG AGGTAAGGCT AAAATAGGAC TTATGCCGTT CAGAAGATTG  
ANITTTGAAC CTAAAAACT ATCATAATAG TAGGAATGCA TGTTAAGATT TGATACTTT CTTAGCTAG AGTTTTCAAC  
CCACAGTAG GAGCAAAGTT GTAAAGTGAG TAGGTNTGAA GAAGGGACAC TCTTTTGAGA AAAGAAATTN GC

SEQ ID NO:1143: (Length of Sequence = 200 Nucleotides)

ACTTCCTCTC TCTGGCATC TGCTATAAAA ATAAGAAGGA GCAAATATTC TIGCCCTTTT TTATCACCIG ANCTGAAAAC  
CCATTGTAACT TGCCATGAAA ATAAGCACTG GTCCATGAGA CCAATGCCCA GAAAATTCAG GCTAAGATTC CTGGAAAGTG  
GGCTGTGGGC ATTATTTAAA ACACACACAC AAAATTTACC

SEQ ID NO:1144: (Length of Sequence = 333 Nucleotides)

AACAGAAGCA TGTTATTTCA TTCCCATTC CAGAAAGGGA GTTAATGAAG ATAAAAATTT ATTTTTTAAG GTCTTTATTG  
AGAGAACTT TGTTTTCGA TATGAACAT TGCAGATGTT TTTATAAATA CTTTCATTAA AATGATGTAA ACAGTAGTAC  
CCAACACTGT AACTCAGTG AAAATAGTAA ATGATCTTT TATTACTAAG ACTGTCTATC ATTCTGAAGC AGTTGGCTTT  
TTTTTAACCA TAGGAAGTCA TTTCCCTCTA GCTCCTTCCC TTCTACTCTC CTGCTCAGAC CATTAGTAGG TACTTTGTTA  
AATAAAAAAC TAG

SEQ ID NO:1145: (Length of Sequence = 225 Nucleotides)

TGGGTTTCTG ATCCGAGAAA AATTGAAAGA CAAACATGGC TGGGGGAAGC AAAACGCTGA CACACAATTC AGGTGGCCCA  
GCAGTGCTGA CCGCAATCC ACCCCACCCC AAGGCAGCCC TTTCAATCCA AAGTGGACAG AGTGGGCCCT ATCCAGANT  
CACTCAGGAA GCTTCTTCAA ACATATGACT GCCACACCCG CCCCAGGT TCAGAAACAT CTTCG

SEQ ID NO:1146: (Length of Sequence = 223 Nucleotides)

AAGGNACAAT ATTATTCTAA ATAATTTAGA TTTGGAAGAC ATCAATGACT TTGGAGATGA TGGGTCCTTG TATATTACTA  
AGGTTACCAC AACTCAGCT GGCATTACA CCGCTATGC AGATGGCTAT NAACAAGNCT ATCAGACTCA CATCTNCCAA  
CTGAATGTC CTCCAGTCAT CCGGCTGAT CCAGACAGTC AGCTAGAGA GCGTGGCTA ACT

SEQ ID NO:1147: (Length of Sequence = 389 Nucleotides)

ATTTCACTGG CCATTAAGAC CCTGAAAGTT GGCTACACAG AAAAGCAGAG GAGAGACTTC CTGGGAGAAG CAAGCATTAT  
GGGACAGTTT GACCACCCCA ATATCATTCG ACTGGAAGGA GTTGTACCA AAAGTAAGCC AGTTATGATT GTNACAGAAT  
ACATGGAGAA TGGTTCCTTG GATAGTTTCC TACGTAAACA CGATGCCAG TTTACTGTCA TTCAGCTAGT GGGGATGCTT  
CGAGGGATAG CATCTGGCAT GAAGTACCTG TCAGACATGG GCTATGTCA CCGAGACCTC GCTGCTCGGA ACATCTTGAT  
CAACAGTAAC TTGGTGTGTA AGGTTTCTAA TTTCGGACTT TCGCGTGTCC TGGAGGATGA CCCAGAAGC

SEQ ID NO:1148: (Length of Sequence = 386 Nucleotides)

ATTAATTGCT TGCCATCATG AGCAGAAGCA AGCGTGACAA CAATTTINAT AGTGTAGAGA TTGGAGATTC TACATTCACA  
GTCTGAAAC GATATCAGAA TTTAAACCT ATAGGCTCAG GAGCTCAAGG AATAGTATGC GCAGTTINATG ATGCCATTCT  
TGAAAGAAAT GTTGCAATCA AGAAGCTAAG CCGACCATTT CAGAATCAGA CTCATGCCAA GCGGGCTAC AGAGAGCTAG  
TTCTTATGAA ATGINTTAAT CACAAAAATA TAATTGCCT TTGAATGTT TTCACACCAC AGAAATCCCT AGAAGANTTT  
CAAGATGTTT ACATAGTCAT GGAGCTCATG GATGCAAATC TTTGCCANGT GTTCAGATGG GGCTAG

SEQ ID NO:1149: (Length of Sequence = 364 Nucleotides)

GGCAACAGGG TGAGACTCCA CCTCAAAAAA TAAAAAAA GAAAGATATT ATTCAAGAAA AGAAGTTAGG AGCCAGGTGC  
AGTGGCTCAT GTCTATTATG CCAGTACTTT GGCAGCCAA GGCAGTAGGN TCACTTGAGG CCGGGAGTTC AGAGACCACT  
CTGGGAAACG TAGCAAGACC TGTCTCTAC AAAAAAGTG TTTAACAAAT TAGCTCAGTA TGGTGGCACA TGCTGTAGT  
CCCACTACT CAGGAGGCAG AGGCAGAAGG ATGGCTCGAG CCTTGAATT CAAGGCTGCA GTGAAGTAAG ATGGTGCCAT  
TGCACTCGNG GATGGGTGAC AGAGCAAGAC TCCATTGCCG CCAG

SEQ ID NO:1150: (Length of Sequence = 267 Nucleotides)

GACAGGTGTA ATCTAAGCTT AAATAAACCC CCGGAGGCT GCACAATINC TTGGCATCTC TCCCCTGCCC TCTCCATCCG  
CATATTCAAT TTGGAGTTTG GAGAAGTATC TAGAATCINC TCCACCCCA AAATGCCAG CAGAGCCCCC CCGCGCCCC  
CGCACCCCTT GGAGCTGCGG CTGCTGAAT CGTTGAGATG TCTGANACTG TCGGGTTCC CTACCTAGTG CTTCAACCAG  
ATCACCTCAC TTTTGAGTTT CCTTCCT

SEQ ID NO:1151: (Length of Sequence = 386 Nucleotides)

GGAAGACGAA GGAGGAGTAA AGGCATGINT CACATGGCAG CAGGCAAGAG AGCGTGTGCA GGGGAAGTGC CCCTTATGAA  
ACCTCAGAT CTCTGAGAC TTATTCACIA CCATGAAAAC GGCACAGGA AAACCTGCCC CTAAGCTTCA GTTACCCCCG  
ACAGGTCCCT CACATGACAC ATGGGGACTA TGGGAGCTAT AATTCAAGAT GAGATTGGG CAGGGACACA GCCAAACCAT  
ATCAGATACT TACCACATTA GACACTGACA GACAGCTCAC CACAGATTCT GGGCTCTATT CAAGGTGTTG ACTTTGATCT  
TTTTCCAGTT GTAAATGTTT CATCAAAAAA AACTGTGATT TTGGCATAAC TTTTTCAG AGTTGC

SEQ ID NO:1152: (Length of Sequence = 239 Nucleotides)

GCAATCTTTT GAGTGACTTA CTTTGAGTCT TTGTCCCTT TCCTCTGATT TTTTCACATG GTTTAACTCA GTGTACCCAA  
GAGTACTAGG TGCACTCAAT TCTGCTATTA ACTCTATAAG CAAGTCTTA AGAAAGTTAA TGTTAAAAA TAATCTTAA  
ATTGCTTGA TAGGAAAAAT GTATTTGAAA TTAATAAAAA TTCTTATGTT GACTTCTTGG TTTTGAAACA ATGAATATA

SEQ ID NO:1153: (Length of Sequence = 275 Nucleotides)

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CAACCTCCTC TTCAGTGTCA AAAAAGCCAC GGTTAGACCA GATTCTCGCC GCCAACCTTG ATGCAGATGA CCTCTAACA  
 GATGTATGTT TTGTTTCTC CTTCATCTC TAATAATTGA TTTACCATGT TTTCTAAAA TACTTGTTAT GTCTTNCCT  
 TAAGAAGTGA CATATATTGA TGTTAGTGA CTGTATTCA AATATAGCCC TGACCTCAGT GCTAAACTTT ATAGTTGATT  
 TTAAATCAA AAGTATTATT TTGTGGGACT TTAAG

SEQ ID NO:1154: (Length of Sequence = 203 Nucleotides)

CCTAAATCTT AAACCTTACA ACAGTTAAAT AAGACCCCTT TCAAAGGGAT TAACACACTG AATATTATAT ACATACAGAT  
 TTATATTTAT GCGCTATACA CATATATGGN CTTTATCTGT ATATAAATAT GTGATGATAA TGATAAAAGG ATAATGATTA  
 CACGTAGGAT AAACATTTAT CAAAATTGT ACTATAATA ATA

SEQ ID NO:1155: (Length of Sequence = 343 Nucleotides)

GAAAAACAAA CACTAAGCTA TTTTGAACA ACTGTTCTAC ACAGAAGAGA GCTTCTCTTA ATTTAAAAA AAAAAAATC  
 CCAATAGGC ATTTTTAGGC ATTAAACAAA AAAGAGAATC CAAATGAAAT ATTATACTTG ATGTTCAATT TTAATAGCAT  
 CTTGATAAG GTATGCTTCC TTTCATTGA NTACATTTCT GNACATGTAT GTTATAAAT CCAGGNAACA GCCAAACCAC  
 AAGTTAACTC TTAACAATGA ATATACATAG TTAACCCAT AGTAAGCAGC CCCTTGAAA AGCACTGATG CACCCAACAN  
 TTATATGGTT CCATTCATA AGG

SEQ ID NO:1156: (Length of Sequence = 396 Nucleotides)

CCCACCAAT GCCATTAAAC CTCCCAATCT TTAAGGGAG GNTCTTACT TACTGTTTCA AGGCAAAAAG ATGATTAAAC  
 TATCTCATAT GGTGTGAATT TGGGCTAAA ATAAATGACT CTAGTGGTAG CATTCATGT AGGCAGGTCC AAGGAAGACA  
 GATTGTAGA CAGAGTTGGG AAAAGGGTCA AAGAGCCAAT GAGTCTCCCT ATCTGAGGG ATGCTTGAC GGAGCCACAG  
 CATGANCTCA TGTTTCTCTG AATCCATCTC AGTTTCATGT ACAGGATGGA AATGCTTCTT TTCTTAGCCA GTGTTGCTTG  
 TAACGAGTTC CCTGCAGCTC AGGGAAGGGA GCAACATGTA CTGCTTTGTT GCTTCTGTGA TAGAGAAGGC AGGAAT

SEQ ID NO:1157: (Length of Sequence = 269 Nucleotides)

CAGGGTCTCA ATCCGTCTCC CAGGCTGGAG TGCAATGGCA CAATCTCAGC TCACTGCAAC CTCCACCTCC CGGGTTCAG  
 TGATCTCCT GCTCAGCCT CCTAGTAGC TGGGACCACA GGCACTCGCC ACCGCAACCA GCCACTTTT GTATTGTAG  
 TAGAGACAGG GCTTCAACCAC GCTGGCCAGG CTGGTCTCAA ACTCTGACC TCAGGTGATC TGCTGCTC GCCTCCCA  
 AGTCTGAGA TTCCGGGCTG AGCCACTTG

SEQ ID NO:1158: (Length of Sequence = 190 Nucleotides)

CTTATTAGTT AATTCACGG CAGATTTTCA TTCTATCGA ATATATTATA TGTAGAACT AGGGCCTTAA ATAATTAGC  
 TGACTTNCCT TATTAGTTAT TCCTAAGAT AAAATTATGC TGGTGAAAT NACTGNGAA TTTCTAAGA AATTAGCTC  
 TATAGAGGCA TAAGTAATCG AAAGACTTTT

SEQ ID NO:1159: (Length of Sequence = 340 Nucleotides)

GGGCACTGAC TTCTGGGAG TGTAGCNC TCACCTGGAC CCCACAGCCA GTGAGCATTA GTGCTTATAT TCCATCCTCC  
 AAAGCTCTTT CTTCATACCA GACCACACAT GTGGCCCAAG GAGGATATT TACTCTGCAC TTTTAGAGTT CTAGAAAACA  
 TTGTTAAGT GTCTGGCATC ATCTATATT ACTTGCTTG ATTTGGGATA CAGTATATC CTGTCTCTG ATGAAGSAT  
 TTINATGAGT TAACCTTATG GGGTGATGGG ATTTATGGGA TTATTCCAC CCTTAAATG ATTTTGTTGGG GAAAAAAGT  
 GTACTAATCC CTAATTAGG

SEQ ID NO:1160: (Length of Sequence = 215 Nucleotides)

GTAAACAAAT CAATTACAT GATTATCCCA GACCTTCTT TTCTTACTGG AAAAAAGAGG GCATTAACT GGATGATGAC  
AATAACACCA TAACTACAAG CTTTATATAA AGTCCTTAT ATACAGTGT AATACAGTGA AAGNTCAACC TTATTGAAAG  
AGGTCTGGCT TCTGCCCTCA GCTACTGGGA AACAATCACT AGGCCTCTGG CATGT

SEQ ID NO:1161: (Length of Sequence = 298 Nucleotides)

AATCTTTAAA ACTACTTTGA ATCTTATAGA AACATCAGAA TCTTTTGAAT TCAAAAGAAG CCAGGGACTC TAGCCAAAGT  
GGAGTGGTTT TTAACTCAA GGATTAGGA CCTTGGCTGA ATACAAACAT TGAATGATTA CTCAGTAGGT GCCAAAGCTC  
AGGACTTTAG ACAGAGTCAG AGTCAGTTT GTNCTGAAAC ACAATTTGAT TTCAACTATT GTTTTAAGTG AGAGAGGAAA  
GTGACATTAT TATGAGTGTA AATTNCTGC TTTTAAAGTA GAAGTTACTG ACAATGA

SEQ ID NO:1162: (Length of Sequence = 163 Nucleotides)

GAAATAAGAA ACAGCTTGTA TATAACTAAT GCTTTGAGGG AGAAATTCAA ATGGCTATGA AAAAATATTT ATAATTCAAT  
GATAATAAAA ATCTTACAG TTAAACTTG AGAATGTAGT TAAAGCAATA CTGGNCATA ANCTTAGCAC ATATTAGTAA  
AGA

SEQ ID NO:1163: (Length of Sequence = 393 Nucleotides)

GCCAACACCA GGAGCATTTT ATTCAGATGT TAAATGAACC AGTTCAAGAA GCTGGTGGTC AAGGAGGAGG AGGTGGAGGT  
GGCAGTGGAG GAATTGCAGA AGCTGGAAGT GGTCAATGA NCTACATTCA AGTAACCT CAGGAAAAAG AAGCTATAGA  
AAGGTTAAG GCATTAGGAT TTCTGAAGG ACTTGTGATA CAAGCGTATT TTGCTTGTA GAAGAATGAG AATTGGCTG  
CCAATTNCT TCTACAGCAG AACTTTGATG AAGATTGAAA GGGACTTTTT TATATCTCAC ACTTCACACC AGTGCATTAC  
ACTAATTGT TCACTGGATT GTCTGGGATG ACTTGGGCTC ATATCCACAA TACTTGGTAT AAGGTAGTAG ATT

SEQ ID NO:1164: (Length of Sequence = 260 Nucleotides)

TGCATTCTTG CCTCTTGAC AAGTCTGCT TCTTTACAAA GGACTTTGCA AGTNCCTCAC CCAGACCATC TCACCTGTAC  
CGAAATAACC TCCCTACTA GCGAATGAGC AACTTTGGAG CAGAAAGCAG AACTGCATC ATATTTCTCT TACTATGCAA  
ACTGGTAGCT CAAACCTCAT ATGACCTCAA AAACTATAA TTGCTTCAAC CTAAAAAGC TGATTGTAAA AAAAAAAAAA  
NGCTGTGGTT GCACACAGT

SEQ ID NO:1165: (Length of Sequence = 330 Nucleotides)

CATTGGTATT TAAAAATGAA TATTAATATA ATGAAATGNN TTGCTTTT TGTAGGCATA ATAAGCCAAA TACTTTTTTA  
CCAAAATAA TTTINAGAGA AAATGATGTA ATGAAAAATT GTACCATGAA TTAGGAGCAT AGTTTTNCC ATTTAAACGT  
CACCACTACT TAAAAGATGA TTGATTATTG CTATACCAA TCAGATGAAC TCTGTTTATC ACTTCTCNC TCTGTCCCCA  
AACAATTGG TCATTGAGA CTGAAATGTT TGTGCTTCA ACTTATTAGA ATGGAAGATA ATGCAGATAT TTCTGTGGGA  
AATAAAATAA

SEQ ID NO:1166: (Length of Sequence = 312 Nucleotides)

ATTGGAGATG CCTTGTCAA ATTTNCCAT TTAAATGGC CAGGAAAAAC AATAATTAT TCTTGATGC TGAGGTTTTA  
TATCTTAGTA GAAGAAGTTA AACTATGACT TGTATCAAG TCTACAGCA ATAGAGTAA TGANTGAAAG TAGTCATTGA  
CCTGGGACAA GATCACTTTG AACATGACAC TATTATACAA AGTGTAATAT TTATTTTTAA ACAACCACTT TTCAAAGCA

GTGTGCATA CATTCCAAAG AATAAAATGC TAGCTACTAG GTTTTGAGAA GCAGAATAAA ATATGATACT GA

SEQ ID NO:1167: (Length of Sequence = 305 Nucleotides)

AGGAAAAGGA TTGATCACAG GAGAGGTACC AAGGGAGTTC CCAGAATAAT AGAAAAGAGG NTCCTCAAGA AGACAGTCAC  
GCAAGAGACC AAGAGAAGAG CTAATCCAAT TGATGCAGGA GGAAGTAGAG CTTGAGAAAG AATGTCTCAA AAAAGAAAAA  
AAAAGAAAGG AGTGGGTAA GTATCTGATG ANTTTNCCTA ATTGAGAGGA GTTACATAGC TCTATTGAAA ATCTTAGATA  
AANNTGATTG ATAAATACAT AGANCATAAA GCAACACTG AAATAAGGCA ATTATCAACT CCAGG

SEQ ID NO:1168: (Length of Sequence = 342 Nucleotides)

AAGGTTTTAG TGATGATTCA GTGAGAAACA TATTTGAAGC AACAGCACA GTAAGTGGAA GCTGTAGGTA CTCATAAGT  
GTCAGTTTC TTCTCTCT AAAAGCTGTG CTTCAAGTC AATGTATGT CTAGAGTGGC ACTGTCTGGT ACAGTGGCCA  
GTACTAGCCA CATATGGCTC TCAAGTACTT TAAAGAGGGC TAGTCTGAAT TGATAATGTG CATAATGTA AAATACTTTA  
AAGAGGGCTC ATCTGAATTG ATATATGCCA TGCAATGAAA ATACAAATCA GATTTCTAAA ACTTTGTACC AAAAAATACC  
ATAAAATAAC TTAATAATAA TT

SEQ ID NO:1169: (Length of Sequence = 397 Nucleotides)

GAGACGGAGC TCNTCTGTC GCCAGGCTGG AGTGCAGTGG CACGATCTTG GTTCACTGCA AGCTTCACCT CCAGGTTCA  
CACCATCTC CTGCTCAGC CTCCGAGTA GCTGGACCA CAGGCGCCCA CCACACGCC CAGCTAATTT TTTATATTTT  
TAGTAGAGAC GGGGGTTTCA CCGTGTAGC CAGGATGGT TOGATTTCTT GACCTGTGA TCCGCCGCN TGGTGTCCC  
AAAGTCTGG GATTACAGC GTGAGCACCA ATGCCAGCC TTTGGAGACA CTTTGTATTG CCACAATCA GGGTAGGGAG  
GGCTGGGAAA TATTACTGGT GTGTAGTGCA TOGAGGCCAG GGATGCTGCT AGACATCTG CAATGCACAA GGACAGG

SEQ ID NO:1170: (Length of Sequence = 422 Nucleotides)

GTTTTAAAGC CTCGTGACAG AGCAGTATTT CGTTTAAAC TTTGTTTTTC TTAAAAGCTT ACAGTGTGTG GCTAATCTC  
CTCCCTTTT TACAAGACGG GGGCCGGAGG GTGGACACTG GTGGCAGGT AAGGGATACT GTCACTTTAA GAAGCCTGCA  
GATTGAAGTG TAAACATGGA GAAATTAGGG GCTGATTTT TAACTGTGT GAGATATTAA CCAGCCGCC TGTATAAAA  
TCAGGAAATC CAAACAGCGA TTTACACCGA TTAACACCCC CTTTATATAT TTTTACAAA AATACTGA GAAATAATC  
AAACGTTTT ATCTCTCTG TCTTTTTTG TTTTTTAAA GTGTCAAAG TCTACATNTA AATATAAAN ATTAAGTT  
AACTCTAGC CCTCAGTGA GG

SEQ ID NO:1171: (Length of Sequence = 384 Nucleotides)

TCTGAATGGG TTGGTGAAAG GTTACAGGAG CAGACAGCT CCACACCCAG GCTGCTCTG GCTATACAGG CTACCTCCAT  
CCCTGANTGT TGTAAATAGGA AAGTCTAAAC ACACAGAAGA GGAGCACAA ACCAATAATT ATCACACATT CAAAATAAAA  
CTAATCCATA AAGAAAAGTA CCAAACTCA CAAGACAGC AATGCTGAA AACACTGGG TGTATCAGCA AATAGAACAA  
AGAAAAATAN GCATAATTA AACAGTAGAA GGTAAGGAT AATTTTAA ANTTAGATAT CATATCTGA TTATTGAAT  
AAAAACTTA GTAGAAAAGC TTAAGTGAAG AGGATCAAAC CTGAGGAGGA CCGGCCAGT TTTG

SEQ ID NO:1172: (Length of Sequence = 410 Nucleotides)

GAGAGAAAAA AAAAAATCT TTTAAAGCT GCCATCTGAG GTGATGGCTT CTCTGTACTT AGCCATACC CCAGANTACA  
ATAAATAGC AATTAGAAA CGTCAAGTA TGAAGGATT TCCTCTCC CCGCAAGC ACTGCTCTT GAAGGAAGCT

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GGTTTCTCTG TAGCTACACC AGCTGTTTCAG AAAGCTCATT GGACCTGGTT TTGAAAATAA AACAAAGTTA AAACCCCTGGG  
AGGAGTTTAT GTNCAGTGTG GAGTACTCAG GCTTTCTTAT AAAGAAAAAA AAAGGTTATC TGGTACCAA GTGTGCACCT  
ACAGACCCTC AGGTACTGCC CTGTGACTTC NCTGTATGAC ATCACAAGGC TGCCAAGTGC TGCITTINCTA GACTAGGGAG  
TTGGTGAGGT TTGCTAG

SEQ ID NO:1173: (Length of Sequence = 274 Nucleotides)

GAGATCTAAA TGAAATTTAT AAGAAAATTG TGGGTTCTGC CCAAGATGAC ATCTAAATTG AAGAAGGTAC ACAGTGAGTT  
TAAAGGATCA ACGAGAGAAA CTTTATTAT TCAATTGCAC AAGAAGACAC ATTCAAGTATC TGGATTATCC AATATATGGA  
ATACTTTGAG TTGAAATGAT TAAAGGGTAA TCTTTAATCA TTAATTAACA AATCAATTAAT TAANCAAAAT AATATTTAGC  
AAATTAAGCA AGINCTAAAG GCTACATGCA AACT

SEQ ID NO:1174: (Length of Sequence = 326 Nucleotides)

AGAAATTAAA ACACTTTAAT ATAAACATTT CCAGAATATA GACTGACCTT ATATCAGTAC TTTTNGAGAC CGTTTAAAAA  
CTATATATCA TCTAAGTTTA TTATAGACTG TTTCAATTTT CACTTTCAGA ACTAGAAAAT GCAAAAATAC ACTGCAAATT  
AGATTTAACA AAGAAAAAAT CAGTTTAAGN TATTTTCATAC ATATTCTTGT GNGAAAGCTG AGACACATAA ACACAGNAAA  
ACAACAATAA AATACCACCA AACTAACAC AAAACCAAGG AAAGAACTGN TTTGTAAAG CTGGTAATT CTGTCTTTA  
AAATAA

SEQ ID NO:1175: (Length of Sequence = 426 Nucleotides)

GCAGTCAGGA TGACACATT AGAAAGAAAC ATTTTAGTTT CAATGTTACC ATAAAACCAG AACGAAAAGC AGCATGCTGT  
ATTATATTIN NCAATTTAGG TTCCATTTCT AACTCCACCT AAAATGAATA TGAACAACT CATTTTAAAG TGTTTGTGAC  
TCAATACAA TAATAGTCTA AGTTTATTCA CATATGTACC AACCAAAGCC CAATAAAGCT AAAAGGAAGC CAAGTGTAA  
AAAAAGGCAG CTATAAGGTC TTGTGTTTGA NTTTTTACCC AGCAAGAAAT AAATGATACT TAGTAATCCA TCTTTCCCCC  
CCACTGCCAT CCTGCACAC ATCTAAAATA GGCTAACTTC ACCTATTCTA ACTTCTGAAA TTGTTTGGG ATTCTGTGT  
TACTTTCTCA GAGTGGATGG TATAGC

SEQ ID NO:1176: (Length of Sequence = 301 Nucleotides)

CTAATCTCA ATCTATCCC TTINCCICTT AGCCATCCTC TCTAATTNT TTAACCTAAG CCTGTGTGTC CTCAGAAAAT  
AGGTTATGCT GTTGGTGTGT GTGGTTGGTA ATCTATATAC ATGGNGTTAT GCTATTGATT TTGTTTGGTA ATCTCCCTTT  
TTACTCAATA CTATATTTAT AAGANCCNTT TAAGTGGTGT TATGCCCTCA CTTTATTGCT TCTGACTGCT GCATGNAAT  
CCATACTCAT GTCCACCACA CTTACTCATT CTCCCTCTTG ATGGACGCTG AAGTTGCTTG G

SEQ ID NO:1177: (Length of Sequence = 331 Nucleotides)

GCAATTCTCC TGCTCANCT TCCTGAGTAG CTGGGATTAC AGGTGCCTGC ACCACGCCCG CCTAATTTTT GTATTTTATG  
TAAAGACAGG GTTTCACCAT GTTGGTCAGG CTGGTCTCGA ACTGCTGACC TCATGATCCG CCCGCCCTCAG CCTCCCAAAG  
TGTTGGGATT ACAGGCATGA GCCACCAAGC CGGCAATC CATGCTTTTA AACATTACTC TGTATGGTGT GATAATGAAC  
AGTCACTGNT ATCTGACTGT TCATCTGTGT GGTCCATCTG TATTGAATAA AGGAGGAAGG AGTTGAAGAA TAAAGGGGAA  
AATCTTGCAG A

SEQ ID NO:1178: (Length of Sequence = 325 Nucleotides)

GAAATTTNTG GAGAGAATAG TCATACCTAC TTAAAAAGAG AATAAAATGC CTTTCCTAAA TNCCTCTGCT TCGCTCCTTT  
CCTGGCGTTG CTCTGGAACC TTGTGAGTTA TATGTATGAT TNCTGTACTC TGATATCCAT CAAAGTGCAT AACATAGTAC

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SEQ ID NO:1185: (Length of Sequence = 383 Nucleotides)

GAGAGGTGAG CAGGCGTGCG GGGGGGGGAC TTCTGCAGAG AAAATATTTT TAAAGTCATA AAACCATGAA AATAACAACCT  
 ACTGTACGTT TTATTTTATA GAAATCAAGT AGTATCTAAT AGACAAGGGA AGACATTGAT CCATAAACCTT TTTAAAGAAA  
 ATTTGGTAAT CTCTTAAAGT ATTGTATGCG CTTTGAATGG GGTGTCCTTTT CTAACCTTGT TTTAATTTT ATGATACACT  
 TATAATTGTT TCAAATAGGC ATTTGTTCAT TTTAAACTA CTAGAAGTTA CACTGAAGAA AAGCAATCAA AAGAAGACTT  
 TTGGACAAAA AAAATTGTTG AATGAGTGAA ATGCCTGAGG TAGCTCAATT TACCAACAG GAA

SEQ ID NO:1186: (Length of Sequence = 373 Nucleotides)

GGGGCTCAAG GTGTGCATGT NTGAGGGAAG AGAGAGAGAG AGAAGGCCGC CTCANAGGTG ACTTTCAGCC TGCNAGCCTT  
 CTTCCCGGGG CGCCATAAAC GCCCCCAATT TCCAGCTGC TAAAGGAAGA GGAAGGTACC TGTCGTGCA CGCAGACGGG  
 AAGGCTGGG GAAGCGGGAG GACTGAGAAA AGCCAGATCT TAGCAAAGCA ATGTCTCAAG ATGGTGTTC TCAGTTCCAA  
 GAAGTCATTC GGCAAGAGCT AGAATTATCT NTGAAGAAGG AACTAGAAAA AATACTCACC ACAGCATCAT CACATGAATT  
 TTGAGCAGAN CAAAAAGGGC CTGGGTGGAT TTGGAAGCT ATTCATAGA TTT

SEQ ID NO:1187: (Length of Sequence = 365 Nucleotides)

TCCACGCAAT TCTGAATAAA GTTATTAAA TAATATGTAC AGCAAATGTA GTAATTCAAC ACATCTATTT ATCAAATCAA  
 TCCACTGCAA TGAAGAAAAA TAAATGANCA GAAAAATCTA TGTCGTGATA GGNCATGCTC TCAGTGTGTA ATTTAAATGG  
 CAATACCTTA AATTAATTGG TTATATATAA TGTCAGTTAT TTTCTTTTCA GAATATAACC TTTTGTGAG TAACCTATTC  
 TAGCAATAGG GCTTAATACG NCTGCAGATA AATAGGNCCT CAAAAACCAA AAACCCAAAA TAATGAAATT NAAAAGGGGA  
 AAAAAACTGT AACTGAGTTC AGAGTTACCT TTCTCCCCC ATAGG

SEQ ID NO:1188: (Length of Sequence = 350 Nucleotides)

ACTATGGCT TACATTTATT TTAAATTTCA CTAAATACAA ATCTTGATTG TCATGCCAGT TTAGATCTT ATTAATTTC  
 AGAATGGATA AATTCAAATA ATCATAAATT ACGTAACTT TTTATTATAC CAAGGTGTC TAATGCCATC ATATGANGAC  
 AGATGCTTCA AACAACCTGC ATTAAATTAT ATTTNNAATA AAATTAATTA CTATTTTAA CCTATTGTA GTCACAAACC  
 GAAACGTTG CGNCTTTACC TTAGAGCTAA AGGCTTACTT TATGCATACG GGATATTAA TAGTCTACAA ATCAAAGTT  
 TAAACAGNCC CTAAAAATT CCATATATTC

SEQ ID NO:1189: (Length of Sequence = 393 Nucleotides)

GCAAACTTNC TCACTTCCTC AAAGAAGAGT AGTGCATAA AAAGAAGGTT GCACCCGGAG AGCATGTAAA GTGTCTCAAG  
 GGGGACATCT GAAGTNCCTC GTTCCAGGG AGCCCACTGG CTCTTCACAA GTAATCTAAT GAAAGCTATG CATTCTCTCT  
 GGGCTCCTCA TATGAAAAAN CCCAATGTAT GAGCAAGC CTAGAAAGGA TTCAATACTG GAGAAATGCA CACAGCTACC  
 GATAAAGACA GCTCAAAGT CCTAAGGCTG CTGACATGAA CCAGATAATT GGTGGCTACA GTTGTGCTG CTAAGATTG  
 GGTGCATGGG GCTTCGCTTT GGTAGCTCC CATGGTCTTC TTTTCCAAA AAAAAAAG AAGNCTCAG GTT

SEQ ID NO:1190: (Length of Sequence = 365 Nucleotides)

AGTGTAACA TTCACTATT TAATAGTACC TTTAAATAA GCATTACTAC ATTTAAATG GTTCCAAAAT GAATCTATAA  
 ATGTAAATAT AAATTAATAA ATACGAACCT AAAGTGAATA AATTTTAAAC CTTAGCTATG GTATAATAA TGTAAATGT  
 ATAGTGTACC TTGAGTCAT TAAATGTCT TAAAGATAA CAGCTGTGA CCAGAACATT AGANACCATA GCCATGATTC



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TCAAGCGNTA ACAATCTACA TTTGNTATTT NCTTGGCCAC TGCAATCTTC AAATGANTAA TAAATTTCCA GAATTCCCAT  
TOCCATGGTG TTTTTCCTAA TAGANCTTTT TCACACTCGA TGTTG

SEQ ID NO:1191: (Length of Sequence = 303 Nucleotides)

CCCGGAGAGC TGCCTTCCTC TTCTACCAAG TGAGGACACT GCAGGAAGAC AGCTGTCTAA GAACTAGGAA GTGGGCCCTC  
ACCAGACATT GAATCTGGC TCCTTGAAGT TGGACTTCCC AGCATCCAGA ACTGTGAGAA ATAAATTCAT GTTATTTATA  
AACCAACCTG TCTATGGTAT TTNTGTAGC AGCCTGCAGC TCTCTATCAC TCTTGTATAT AAGAGGCTGA AGTTTACTTT  
ACCTCAGGCA GAGCTAAGCA AAAAAGATTA CATCCGATT ACAAGATGAA AGTAAACAGA ATT

SEQ ID NO:1192: (Length of Sequence = 315 Nucleotides)

ACTCCAGCCT GGGGAACAAA CAAGCAAGAC TCCATCTCTA AATAAAAAAG AGTGTCCCC TAAGATGCTC TGGGAAATAT  
TGTAGACTGG TGCTCTCTT GGATGATGTT TGCGTCAGC ATTACCAAAA TAAACTTGCT CTCTGGGAAA AAAAAAAAAA  
TAATAAATAA AATAAACAGT AAGAAACACC CATAANCAA ATTTCTATGC TCCTGCAGCC TCTTTTGGCC TGAGCAAGTG  
GGACCTTGGT ATACACATCA CCTGINCTIN CCTTTTCTT TGAAATGTGG TGTTTGCTGT TAAATGGGA TTGAA

SEQ ID NO:1193: (Length of Sequence = 313 Nucleotides)

CGAATTAGTG AACTGTGCTT CAGGTCAGG AACCTGGTCT TAGCTCCTTG CTGCTGAGA TTTTGAGTTA CAGTAGAAT  
TCTCCAAAAG CAAAACAGT AAAAGTCATT TTNCCACTCT TTTGGTCAAG CACATGTAAG CTTCAGGAC CAGGTGGTAT  
GCGGTNCTG AAAGTGAGAC ACATGCCCCA GGGAAAGGGT AATTTTAAAA TTCTTCCCAT AGGTCTCAT CCTGTCTC  
TGCTATGTCC AGCATCTCTN AGTCCAGCT GCAGGCGCTA TATTTAAATA CCTCATGCT TTATCGCTTT TGT

SEQ ID NO:1194: (Length of Sequence = 341 Nucleotides)

GATTTAAAAG CAAGTATTT TNAATCCAC GAAAGATGCC TACCTGGNT CCTNCTCTGG TCCTTATAG CCACACTCT  
CTTGACAGGC AGAGGAGTTA GGAGTGAGG GATATTCCA CCAAGACCTT ACAAATGCA CTCTTAGGCC ATGCCCTGGG  
TACCCAAACT CTAGAATTCC CTCTCAAG GGACCTTAAC CCAACTTCAG AGCCTATATA GGCCAATTCC TTGGTCCATT  
TTCCAAGGGG TGNCAAAAG ACAACCATTT TNGGAGGGN GANGGGAGTA GGATGAAGCT TTGGNCAGT GGGTCTTGG  
CAAATCCAC ATATCCCGA A

SEQ ID NO:1195: (Length of Sequence = 239 Nucleotides)

TTATTGATTC TTTTTTTGAA ATGGAGTCTC GCTCTGTNNC CCAGGCTGGA TTGCAATTNC NGATCTCAA CCCACTGCAA  
CCTCGCCTC CGGGTTTGA GCGATTCTCC TGCCCANCC TCCTGAGTAG CTGGGACTAC AGGTGCGGCG CACCATGCCC  
AACTAATTTT GGTATTTTGA GAGACAGGT TTCTCCATGT TGGTCAGGCT GTTCTCAAGC TCCCAACCTC AGGTGATCA

SEQ ID NO:1196: (Length of Sequence = 291 Nucleotides)

CCATGCTTGG CTCAGGGCCT GGGGCGGGT CCTGGGTAGA GTCCTAGCCC CAGAGCCCCA GCGGCTCATG TCCTGCGGCC  
CCTCACTGAC CAGACGATGA TCGGTAACCT CTTGAGAAAA CATGGCAAAG GATTAGAAAA GGGCAGGGTG AAATNCCAA  
GCCACTCAGA CGGAACCCAG ATGATCTTCA ATGCAGCCAA GGAGCTGGGT CAGCTGTCCA AACTCAAGGT TCACATGGTA  
CGAGAAGAAG CCAAGAGCTT NACCCCAAAG CAGTGGCGG TGTGTTGAGT T

SEQ ID NO:1197: (Length of Sequence = 303 Nucleotides)

CTTCATATTT TTATAGCTGG GGTCAAAATA TGCAATTAA AAATAAATAT ATCCATTNC CTATTCTTAC ATTTATGAAT  
ATAAAANTAA AATCTAAGAA ACATAATGCT GCCAACTAAT AGTAGTGAG GAAAGGAAGC TGAGAGAAAG ATAAATATAT

TANTTTAATC ATTACTCAGA AAAGGCAGTA AAAGATACTA TCTATAGCAG GCATCAATAA ATATGANCCA TGAGCCAAAT  
CAGGCTTACC ACCTGATTTT NTAGGATAAA GTTCATTGNA AACACAGTTA CAGTGTCTTT CCA

SEQ ID NO:1198: (Length of Sequence = 318 Nucleotides)

CTCAATTCT TCTCATCTTT TTATGCTAT TATTGTCATA TAAGTTACAT TCCTATACAT TGTGTGTCCA ACACAAATTT  
AAAATTATGC CATTGTCTCT TAAGTCATAG AACAAAAGAG ATACAAACAA AACATACATT TATCCTGTCT TTTATATTTG  
CCTATGCAGT TACCTTTACC AGTGTCTCTT ATTTCTNCAT GTGGATCTGA GTTACTGTCT TTNAACTTCA ATCTAAAGNN  
CTTTCAGTCT GAAAGACTGT AATTINAATT TCTNGTAGGG GTAGGTAAAC TAATGATTAA TTCTCAGTAT TCTGAGGA

SEQ ID NO:1199: (Length of Sequence = 326 Nucleotides)

TCTAGTTATT CTGAGAACTA CAACCAAGAA AAGAGGGAAG CACCGGGTTG GCCAAGGCCA TCCGAGACT TGTCTGTCTG  
GGTCAATTAA AAAGCTTTTC TAGGATAACG TTGGCTTTCC AAGTGGTTTT CCAAGCTGAT GTCTTTCCCA CTGAGGAGAA  
GCTGTAGGCC TGTGGACTGC CAGGTAGGAG GAGGTGAGG TTTAGAGGAA AGAGGAGAGC AGGAATGGGT TGTTCNCAGT  
GGGGCTGTTC CCATGGACTC ACCAAGAAGA AATCGAGGTG CTGATGGGGC TGCACAAGTG CTTATCAGAA ACAGCTGTAA  
CAAGTT

SEQ ID NO:1200: (Length of Sequence = 341 Nucleotides)

GGGTGACAGA GTGAGACTCA GTCTGCTGA AAAAAACAAC AACATTGCTT TACAGTGTGA TTCCAGTTAC AGAGAATATT  
CACATAGGTG CATAAATAAA TGAAAAAATT ATTGGTTAAT GTCTCTGTAT GTTGGGATTC TCAGTGATTT TTTTINCTA  
CTTTTNAATT TTNATAATTC CTCCAGTGTG TTGGTGTAG CTTTATAGAT TATATCAAGT AACCTTTTGC TGCACCAAAA  
AACCCCCCAA ATCTAGTGA TTAACAACAA ACCATCTTAC AATTTTNTC AGAACTGTCT AAGGCTGGAT ATTTTACTGG  
GCTCTCTCT GAATGTGGGG G

SEQ ID NO:1201: (Length of Sequence = 312 Nucleotides)

GTCTTTNTA CCCTGCTAGC AATAGCTCTC AGTTTCAGAG GCACAGTCTT TGGAGACCAT TCAGCACTGA GAAAGCAATA  
TTTAGAACCT ATTGCAAAAC TGGGCTGAG TTAGGCATGG TGATGAATGC ATCAGCAAGG AATAGAAAGT NCTTATCGTG  
AAACCTTCA ACCTCAACTA TGCTTCATA GACACACAG TTCAATGACA TGTAGGCACA TGTACCATCT CACATCTTTC  
ACTTTCCGA GATGCCATAT ACAATTACCT ACATTAATAN CTGTAGCACT ATACCTTTT GAGCCCGAGA GA

SEQ ID NO:1202: (Length of Sequence = 344 Nucleotides)

GGAAATAGC CAGACTGGGT ATTATGCATG TAACAAATGA GGACATTGTG CATAAGAAAG GAAACATTAG TTTCTGTCA  
TCCTGGGCCA AGTACCTCAT TACAGTAAAT GTGTGCTTT GGAACTCTT TGCTTGINCT GATGGCGGTA AGCATGGGGT  
CCCAGGCAGG TTCAAAGGCT GAACTGTAG AAATGGGCAA GACAATACAT TTGTGTTTGG AAGGAATTC TCATGGGATA  
AGTTTCCAA AGCTTGAATT ACAGGCTATG AAATAAGCA AATAGATGA GGAGAAACA AGTATTGTTT TCAAAAAGGT  
ACCAAGTCAA TTCTATTAA AGGA

SEQ ID NO:1203: (Length of Sequence = 370 Nucleotides)

GTCTTTATC TTCTCTCT TATGTGCACT ATGTAATGTC CTCATCATTT TAAAAGTGAG TTGCTATTGG GCGGCGCGG  
TGGCTCAGC CTGTAATCCC AGAAGTTTGG GAGGCCAAGG TTGTGGCTC ACTTGAGGTC AGGAGTTCAA GACCAGCCTG  
GTCAACATGG TGAAACCCAG TCTCTACAAA AAACACACAC AAAAAATTAG CTAGGCATGG TGGCACACAC CTGTAATCCC  
AGCTACTCGG GAGGCTGAGG CACGAGAATT GCTTGAACCC AGGGAGGCGG AGGGTTNCAG TGAGCCCAAG ATCGTGCCAC  
TGCACTCCAA GCTTTGGGGT GACCAGAANC GAGACTTTCT CAAAACAAA

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SEQ ID NO:1204: (Length of Sequence = 346 Nucleotides)

CTCTTTAGAA AGCCTGCCTT GGCTGGGCCT GTGGGCTCAC CTCTAATCCC AGCACTTTGG GAGGCCAAGG TGGGAGGATT  
GCTTGAGCCC AGGAATTINA GACTAGCTGG GGCAGTGTAG TGAGACTTTG TCTCTACCAG AAAAACCGGG CGTGGTGGGG  
CATGCCTGTA GTCCAGCTA CTGGGAAGC TGAGGCAGGA GGGTTTGCTT GAGCCCGGGA CGTGGAGGTG GCAGTAAGCT  
GTAATGTGC CACTGTACTC CAGNCTGGGT GATAGAGTGA GACCCTGTAT CAAAACAAA CAAAAACAA AAACCTGCCT  
TCTNGGGATT GGGCTTCTGG GTTTTT

SEQ ID NO:1205: (Length of Sequence = 292 Nucleotides)

TACAACGAGA CACTTGAGCA CACGCGTACA CCCAGACATC TTGGGGCTGC TATGGATTG ACTTTGAAGG TTCTGTGTGG  
GTGCGGTGG CTGCATGTTT GANTCAGGTG GAGAAGCACT TCAACGCTGG ACGAAGTAAA GATTATGTGT GTTATTTTTT  
TTTTCTCTC TCTCTCTCTC TTAAGAAAGG AAAATATCCC AAGGACTAAT CTGATCGGGT CTTCTTCAT CAGGAACGAA  
TGCAGGAATT TGGGAAGTGA GCTGTGCAAG TCCTGAAGAA GGAGATTGT TT

SEQ ID NO:1206: (Length of Sequence = 336 Nucleotides)

TTGCCAACAC AGTGTGTCAT GTTATTTGGG CTATTCACAG GTAAGCTTAA AATACAATGA AAAGAAAAGA CCAGAGTCA  
TCAGGAATGT CGAGAAACAA AATATTTAGC ATTTCTTAGT TTCAAATGTT ACCATTTTCAT TGCAGCTGAG GAATATAGGC  
CATTCGTTGA CATAACTGCA ATGGGTGAGA CTATTTTITA GCCACAGGAA GCAAATACAT TTAACCAATG ACTTTTAGGA  
CAGGAAGCAA AAAAGAAAAC AATATTTTCA TGTAGCAAGG ACAAGANAAT CATTTATACA AATTAAAGTG GATATTAATA  
TACCATTATA AAGAGG

SEQ ID NO:1207: (Length of Sequence = 319 Nucleotides)

TGCTCANCC TCCAGAGTAA CTGGGATTAC AGGCGCCGCG CGCCACGCTT GGCTAATTTT TGTTATTTTA GTAGAGATGG  
GATTFINCCA TGTGGCCAG GCTGGTCTCC AACTCTTGAT CTCAGGTGAT CCACCTGCCA CAGCTCCCA AAGTCTGGG  
ATTACAGGCA TGAGCCACTG CGCTGCCTC CATTTCTTTT TTATAATTC TCCCTGAAT CCCTTAAGGT AGAGAAGCTG  
TTTGATGCTC CCAGCCCTG GGAGGCTGAA AGGTAACTIN ACCAGCTCCA TGCTGAGTT TAGCACCTGC TGTGCCAGG

SEQ ID NO:1208: (Length of Sequence = 357 Nucleotides)

GAGATGTTA AAAATGAAGT GGAAGTTTTT TGTTTTTGTT TGTTTTTTGC AGAAAAAGA TTTTAAATGG CTTGAATGIN  
CTGCCATAGT TGCTCAGAT TGTGAGAAA TTATGTTGTA CATCTGAGAG AGAAAAGAAG AGCCTTTTGA GGAGCTGGC  
TAAATTAAT TTTTGTTTAG TCTCTTAACT CTTGGCTTG AATGAGTCAT TGACTTTCTT TGCCAAAGATA GGGTTAGCAT  
TTGTTTTGTT TTTTAAAGC AGGCCAAGGG ATTGCCAGA GGGGAGACAA CCTGAGCAAC TGAAGGAAGG AATTTCTAGA  
AATGTGTTT ACCAGTTGTT TTAGTCTGAA TGTGATT

SEQ ID NO:1209: (Length of Sequence = 362 Nucleotides)

CCCATCTGCT CCACCAAAG AAATCAGACA AAGTAAATTT TATTGAGACA GACAGAAATG CACCTACTCA GGACTACAGT  
TAAGCATTTA CTATTAAACA AAGAGTTGTG TTCACATCC AGATAAGTCT ACGTGGAAAA GCATTCAGAA TTTACTAGGT  
TTTINCIAA TCACTATTTT ATCTACAATA GGGACAACAA ACTGACACTC AGGATTTGAT GGGCTCTCAT TACAATGCTA  
TACATTTAAC AGGNCNAAAC ATCAGTGAAT TTAGAGAAAA AGTTATAAAA NGACCAAAC CACCCACTGT AGGATGGGCT  
CTTGATGTT ACTGTACAGC GTGGGTCAG GTAAACAA GA

SEQ ID NO:1210: (Length of Sequence = 349 Nucleotides)

GAGAAGATAG TAGAGAAAGT CAGCGTTACA CAAAGGAGAA CCAGGAGAGC TGCTCTTTTT GCGCAGCTA CCACTTCCCC  
TACTCCAGA ACTACAAGAG GTCGTAGGAA GAGTGTAGAG CCACCTAAGC GTAAGAAGCG GGCCACAAAG GAGCCCAAAG  
CACCAGTCCA GAAAGCTAAG TGTGAAGAGA AAGAGACTCT GACCTGTGAG AAGTGCCCCA GGGTATTTAA CACTCGCTGG  
TACCTGGAGA AGCACATGAA CGTTACTCAT AGGCCATGC AGATTGTGA TAAATGTGGC AAGAAGTTTT TCCTGGGAAG  
TGAGCTGTCC CTTACCAGC AACAGACT

SEQ ID NO:1211: (Length of Sequence = 344 Nucleotides)

TTTTTTTTT TTTTTCAGG GAAGAGCTTT ATTGCTTCCA TGGGGGTGGC CTGGGACGGC TGCCACAGCT TGGGTAAGCT  
CCTTGGGCCT CANITCCCTT TGGTCCAGGC TAAAGGCAGA ACCCAACCAC CTGGCAGTNT TGTGTGTGAA ACCTAGAACA  
TGTGGCAAGT TGGTGAGTCC GGGCCTGCGG TAGTCTATG GNTCAGCTGC AGCTGTGGAG GGGAGCTCTT CCCAGCAGGC  
GGANTGGGCG TCACCTCCT GAGCTTTAAA GTTCCTTCTG CTATAGCCCT GGGGCGGTCT TGTGTGCTCC GAAGGAATGG  
GCTCCAGGT TTCCCATGG GACA

SEQ ID NO:1212: (Length of Sequence = 364 Nucleotides)

AAAGAAACC TGGTATTTTC ACCATCCTCT CTGAAAATAA ATACTTTGAC TTGCACTGAT TACTACTTCA TCAGCATTCA  
ACTCCGCTCC GTGGCACTCT GTGTGAATAA TTATAAGGC AGATTAGCA TTCTAAAAT AAATTCTATT GGTAAATTAG  
GATATCAGAT GCTTCCATTA TAAAAGCTA TCCTATCTG TACTCTCAGC TGGCAGTCAT ATCCAGATCT CAAGCTACTC  
TGGCTCTTAT TGAACAAGAA CCTATTCCAG GNGTGAGGT TTGAAGAGG GGATCTCTCA TGGTTAACTA GAGNCAGGAA  
GAGGCAGAAT TGCCACATA CTCINGCAGG AGTTAAATAA CAAT

SEQ ID NO:1213: (Length of Sequence = 302 Nucleotides)

CTAATTTTIG TATTTTGTAGT AGAGACGGAG TTCTACCATG TTGGCCAGGC TAGTTTCAA CTCTGACCT CGGATGATCC  
ACCCGCTCG GCCTCCCAA GTGTGGGAT TATAGGCATG AGCCACTGTG CCGGTTACT TTTTCTTTT TTAACACT  
GAAATTGCTG TATCTACCAC ATTACATTT TATTTAAAAA AATTGTGTA ATAGCATATG TATGTAAATT TAATATTAAT  
ATACCTCTT TTTGTCTT CTTTAGGTGG TTGGAGCTA GGGATACTTA CTTACTGATT TT

SEQ ID NO:1214: (Length of Sequence = 317 Nucleotides)

CTAATTTTNC AGACAGGTTT ACATGTAAAA GGCTAGGTAT TTAGCCACCT CAGCATTGAT TAGTTTGGGA TGTCTAAGCT  
CTGTACACA TGGCTTCCA TGGCTTCACT CTACAAAACA TATTINCAAC GTGAAGGNTA CATCTACAAG AAATCTACAT  
TTCAAGGGTT TTACAAATCA ATCTGTATC TTCCCTGA ATTGACTCTC ACAGACCCG TCCCCTGTIN ATTNCCTTTG  
CCCAGCTTAA CGGTCCAAAG TCTACTTAAA TGCAGCTCAA AAATGTAAAG ATTGGGCAAC AGATTACAG TTCTGT

SEQ ID NO:1215: (Length of Sequence = 276 Nucleotides)

ATAAGGTATT AAACAATAT TCTGTACTT GANTTAAAA AAAATCAAGC TGGGTGCAAT TGCTCATGGC TGTAAATCCA  
ACACTTTGCT AGGGTTAAGT GAGAGGTTCA GCCCAGAAGT TCAGTACCAG CCTGGGCAAT ATAGTGAGAC CCCTTCTCTA  
CAAAAAAAT GAAGAAATTA GCTGGGTATG GTTGCATG TN CTGTGNNCC AGCTCCTCGG GAGGCTGAGG CTGGAGGNTC  
ACTTGGGCCC AGAAGGTCAA GGCTACAGTG AACCTT

SEQ ID NO:1216: (Length of Sequence = 354 Nucleotides)

GCAATAGGCAG CCCCTGCTCT TGCAATTTACC TCCCACGTGA ACTAGCTGCT CAGTCATTGC TCTGGAATAT GCAGTTGTGA  
TCTAGAAATT AAAGATGGGA TTAGGTAACC AGTGAGGTCC CTTCTACTGC CAGTGTATGA CTCTCTCTT TGTAAATGTC  
ATATGTAGGG TTCTGTACAC AGGACATTTT CTTCAATGTA GTTCTCAGA TGCAATGAGC TCTCTGAAT GACTTAGCGG

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GGAAGCTCAG TTGCAGCTGA CCGTATTAAAG GGTCTCTCC CATTGTGCTG TGCCCGCTCG TTAGCGTAGG ATTCTGCCC  
CACGGCCCTT CCGTCTTCT AAGGGCTGG CTTT

SEQ ID NO:1217: (Length of Sequence = 272 Nucleotides)

CTTCCAGCT TTGCTGTGTT GTAAACAGCT GGCAGTGGTT ACATCTATAT TTGTTAAGAG GCAGAGCACT GTATTTTGTG  
TAAGATAAGG TGCTAGTCTT GGCCAGGCTG CCAAGCTGGG GCTNTTTAAA ATAAAAGTTT TAAAGAAAAA TTATAGCATA  
ATAAATTACA CAATTTTATT GGAAACTGA AGGTGTCAA CCAATGCTAG TTTTAAATA TATTTAGAAA TACTATTCA  
GGAAATTTTA ACTACACTCA TTAGTCTTAT GG

SEQ ID NO:1218: (Length of Sequence = 281 Nucleotides)

GTTCGCCAGG CTGCAGTGCA CTGTGCAAA CGGGCTCAC TGCGCCCA ATCTCCACT CTTAAGCAAT CCTCCACCT  
CAGCTCCTG AATAGCTGGG ATTACAGGTG TGCACTGCCA CACCCAGCTA ATINCTTTAA TTGTCTTAT TTTTAGTAGA  
GATGGAGTTT CGCTATGTTG TAAAGCTGG TCTGGAATG CTGGCTCAA GCGATCTCC CGCTTGGCC TCTCAAAGT  
CTGGGGTAC AGACGTGAGC CACCATGCTT GGGCTGCTC A

SEQ ID NO:1219: (Length of Sequence = 231 Nucleotides)

GTCTTCTCTC CCTCTTCCC TTTATGGCA CTGCCGGAA CAGGCAGCC AGCAGGGAT GGGATCAGGA TGCAGTTGTC  
ATGGAAACGG TTGGGATCC ACAGGAACGA CATTATACA GGGACATTN TGAAAGCAA GCAAGAATGA NTGCTTCCC  
GATCTCAGAC TGGCTGGATT CAGATCATTG TTTTGGCTGG TTCTATTTT AAGGGTAAG CAGTTTGCTA T

SEQ ID NO:1220: (Length of Sequence = 409 Nucleotides)

AGTCACTCAG AAACCTACTT TGCTACAGC CTCAATTATG TTTTGTAT TTGTTAAGAT ATTCCGTGTG ATGACATATT  
TTGCCTTAAA TTINCTAAT TTCTGGCCA TGCTTCTCT GTGATTGAA AATGTTACGG TAAGTGCTTA GTTTGGAAAC  
TATACTGCA ACATATATTG CATTACTTCA GCAGAGCTGT AGTTCCATA CATAATAAAA TGATGCTTTT TTTAATAAGA  
AGATCATACA CATTTCATTA TGCCCTAAAA GATGAACATT CAAAGTTCAC TTTTCTCTTG TTTGATATG ACGGATATAT  
ATCAGTAAAA TAAAAATGC TGCAGNACCA ATATGCACTA ACTCAAACAT GCTGTGGATT TGTAGGGGCA CTGAGGTAGC  
AATGTCAAG

SEQ ID NO:1221: (Length of Sequence = 396 Nucleotides)

ATCTGAGATA CTTGTCTCT ATGAATAAAT TAGTTAGTAG AATCTAATT CTAGATCCTT CATAATGGTA ATTGAGGGTA  
AAAAATAATA ATGTAGTAGT CAATTTAGC CCTTTAAACC TATGGGGAAC TGTATGAATA ACTGTTTGA ACTGCAGGT  
AATCCGTGCA CACTGCAAA CACATAGAAG CAACAAGACT ATTTCTCTC ACACITTTAA TTAAAATAGT GCCTGAGTAG  
ACTTCCAGG TAAGGTTGAG AAATTINCT TCTAATTCC CTGTTTTAAT GACCACTACT TTAAAGCTA TGCTGGGAAT  
TCACITTCAC ATATATCTAA CTTACAGGA ATTTTGAAG AGCTAAATG TCTATGGTA GATTCAATGT TTCCTT

SEQ ID NO:1222: (Length of Sequence = 350 Nucleotides)

GTATTTNTT CTGGTACTC TTCAATGGCT GCTAGAGAAC TTACTAAT TATAGTCCAG TAGCTGGACA GAGCTGCATG  
TGTATTCTCT AAGTCCACT GTGCTGCTGG TCAAGATTAT TTGCACTGT TTGGTGTGT TGAAGAGGAA TACGTGTG  
AAGGCTGAGT CAACTGCATG ACAATNCTA TGGCTCACTG GCTGATGAT TGTGGCTGA CTAGAAAGCT CTGCTGTAT  
TCCAGATGA CAAGTCACAC CTGAACAGCT GGATACTACT CGCATCCAAT TTGCTTCAA GTTAACATAT TTNCAGAAA  
TATTTGGATT TGGAGTACAT ACAAATATTT

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SEQ ID NO:1223: (Length of Sequence = 370 Nucleotides)

ATAAGCATAT GANTTTATCT ATAGGCCAAG TTAATGACAT AACTACAAAG AAATGACTTG TTTCACATGT TTTAAACCAG  
 TGTTTTGGCT ATACTAACTT AGTGAGACAT ATTCTAAAGA AAAATAGAGA CGCAAAGAAG ATCTTACACT TTAATAGTCA  
 ATTTTGTAGT TGTAATATTA CTATCGATCA TTTTGTAACT CTCCTATATA GGGTGTAGGA TGGTGGAAAT AAGTAATTTT  
 NTAATGTG TTAGGAACCA AGGCTATCAG TGTAAATGA AGGAGTTACA AGCATAAGAT TGANAGACGG TAAGTAAAAA  
 GCTCATTAGT ATAGTTCCAA GTTTAACTTG TCAGGGATGA GCTCATGATT

SEQ ID NO:1224: (Length of Sequence = 188 Nucleotides)

ACATGACCNA GGCTGACCA AATCAGACTA AATCCTANTIA CCTATACCAG AGTTATTGAG AAAGATAAGN TTTGGCCTGC  
 NGGCTTTGA CAGTGAAGG NTNTAGGCTT TGGAGCTCCT CAGGGCCACT GCTTCAGGGA ACCTTGCTGA CAGTGAAGCC  
 AACACAGATG AAAGCAAGGC CAAACATT

SEQ ID NO:1225: (Length of Sequence = 353 Nucleotides)

CCCCAGCCAA GGGAGGCAGT NAGINAGTGT GGTACCCAGC GTGGGAAACC GTGCTTTTIN CCATGGNACT NTGCAACCCA  
 CGGATTAGAA GATCCCACTC AGGAACCCAC GNCCTGGNA CCTAGAATGC CAACCCAGGA GCTGCACAGA TTCTAAACAA  
 CCTCTCANCT GGAATCTGCC TAACCCTGCA GAGCTCCTGC GGGGAGGGGT GACCAAGTGC ACANCTGCTG CTGCTGCTG  
 CCTAAGCCAT TTAA

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CAAAAAGTTA GAAAAACATG TAAACGTAAG TNATGAGGTA TTTCATAGAT ACAGTGCCCA TACAAATNCT CTTTCCACA  
 ATTTTCAACT GCCAGATCTC TTGCTTTAGT CTTTTTNCCT TATATTGGA GAAACAGAAG AGTTTGACAT AAAAGTCCCT  
 TTGAGGATGT GAGGGTTGCA GTAGTTTACA GCAGGGTCAG AAAATGAAAG TAATAAAGCA ATATTACAT GTTTTGTAT  
 AAGACCAAAA ATATTTCCTT AAAAGTTGT TAAAGTTTT TTAGTCTAT AAACACTCAC TTTTATAGG CACATGATTG  
 TCTGTGTGAC TTCTTTTCC AGAGGAGGAC TTT

SEQ ID NO:1227: (Length of Sequence = 352 Nucleotides)

GGCATCTGTT TTTTGTGTTG TTTTGAGATA GAGTCTCACT CTGTCGCCAG GCTGGAGTGC AGTGGCGTGA TCTCGGCTCA  
 CTGCAATCTT TGCTCCCGG GTTCAAGCGA TTCTCTGCC TCAGCTCCC AAGTAGCTGG GAGGTGTGCA CGCCACCACA  
 CCGGTTAAT TTTNGTATTT TTTGTAGAGA TGGGGTTTCA CCATATTGGC AAGGATGGTC TCAATTTCTT GCGCTTGTGA  
 ATCCGCCCGC CTCAGCCTCC CCAAGTGTCTG GGATTCCAGG CGTGACCAGC GCGCCCGGCC GGNATCTGTA GATTTTAAAA  
 GGCCCCAGTG GTTCTNATGC ACACCCCGAG AG

SEQ ID NO:1228: (Length of Sequence = 387 Nucleotides)

AGTTTTCCAA GATTGAGTGA CACTATTGTA ATGAGAATCT TCACTGGAGC ATCAGAAGAA CTGATTTCAA GCCAGTTTGT  
 TTGGTCAGCA CGGTCAAAAC TTCAGAAGAA TCTTGTCCTC TGAGGCTTTC CAAAGCTTTG TTCCCCAGGG CAGTAACAGC  
 TTCCAGTGT GGCAGATCT TTAGTATTAT CACCAGGCA GCTGCACTGT GGCTGTAGC CATCTTCTC TTGTAGTACG  
 ATCCACCTG TCAGACTTCT TGAATTGCA CTTCAATTA GAGCCACAAT CAAATTATCA GTCAGNTGT TTATTTTGT  
 CACCAGAGAA AGGACAGAT CTGTTTCAGC AGAGTTTGA GCCAGTACT GATCTCTCT CAGCAGG

SEQ ID NO:1229: (Length of Sequence = 366 Nucleotides)

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CTGATAAGGA GGTAAATTCA TAGGAGCTGC TAAGATGGGC ATGAGGNTCA AACTGCAAAG CACCAACCAC CCCAACCAACC  
 TGCTGAAGGA ACTCAACAAG TGCCGGCTCT CAGAGACCAT GTGCGACGTC ACCATTGTGG TGGGGAGCCG CTCCTTCCCG  
 GCCCACAAGG CTGTGCTGGC CTGTGCAGCT GGCTACTTCC AGAACCTCTT CCTGAATACT GGGCTTGATG CTGCCAGGAC  
 CTATGTGGTG GACTTCATCA CCCCTGCCAA CTTTNAAGA GTTCTGAGCT TTGTCTACAC TTCAGAACTC TTCACAGACC  
 TGATCAATGT TGGGGTCATC TACGAGGTAG CTGAGCGTCT GGGTAT

SEQ ID NO:1230: (Length of Sequence = 343 Nucleotides)

AGTGGAGAGA AGCCCTATGA ATGTTTGTAG TGTGGGAAAT CGTTTGTCTG GAGCACAAC CTCATTGAC ATGCCATTAT  
 CCACACTGGA GAGAAGCCCT ATAAATGTAG TGAATGTGGA AAGGCCCTCA GTGCGAGTC GTCCCTCACT CAGCATCAAA  
 GGATGCATAC TGGGAAAAAT CCCATCAGTG TAACAGATGT GGAAGACCT TTTACAAGTG GACAAACCTC AGTTACCTTT  
 CGAGAATTIN TTTAGGGGAA GGACTTTTTC AATGTAACCA CTGAGGCAA TATTTTCCA GAGGNAACAT CTTCTCTGCG  
 ATCTGATCAA CCATACCAA GAG

SEQ ID NO:1231: (Length of Sequence = 406 Nucleotides)

CTCTGCGCGG GCAGCTTGA GAAGGCGCAA TACTCTCCAG CTCACCGT ACTTCAGCAT GGCTGGGGAG GCCTTGAAA  
 ACTTATAATC ATGGTGGAG AGGAAGCAA CATGTCTTC TTCACATGAC GGCAGGAAGG AGAAGTGCTG AGCAAAGGGA  
 GGAAAGCCCC TTATAAAACC ATTAGATCTT GTGAGAACTC ACTATCATGA GAACAGCATG AAGGTAAACG CCCCATGATT  
 AANTTACCTC CCATGGGCTC CCTCCGCAA GAGGTGGAGA TTATGGAAAC TACAACCTCA GATGAGATT NGGTGGGGAC  
 ATAGGCAAAC CATATCAATG TACATGTGTC TTTATGGTAG AATGATTAT ATTACTTTAG GTATATAGCC AGTATTGGGA  
 ATTGCT

SEQ ID NO:1232: (Length of Sequence = 380 Nucleotides)

AGACCATCAA AGGCCAGAG GAGAGACTCT TGGGACAAAT AAATATTTAA AAGCAGTTGC CTATGAGAAA ATGGAAAAG  
 CCACAAGCAA AGGTAAGATC CATGCTCCAA AAAGGCTGA GAAATCTTA AACCTTCTCC TCAGATTGAT CCCAAAGCTT  
 AGAAGCAATA CCAAGATAAT AGCAAAAATC CTCCTGGAA AAGAGTCAGT CTGCAAAAAC CGGAAAAGGA GGTGTGTTTT  
 TCCACAATGC CTAATTTCTA ACAACAACAA CAAAACTCA GAAACATGG CCCAATAAGT GGAAGAAAAT AAGTGACGG  
 AAACCTTCCC CGGAGGAAAC ATAAGCTTCA GGCAACTAG ACAGATTTTA GACTGTCTAA

SEQ ID NO:1233: (Length of Sequence = 357 Nucleotides)

TTCAAAGTTT ATCAACAACA CCACCATCAA GACAGCAAAC CAAAGGGSCA TGGTAAAAGA AAGTTCAGT GACTCTGGAT  
 TTGGTTCTAA TTTAATGCA ACTTCTTGAT TGAGTGCAGG GTCAGCACTA CTTGGAAGTG GCTTGGGGT TTCANOGGTG  
 GGTAATGGAG ACATTGCCAA ATTTATATTC TGTAATTTIN CGTTGGGTGA GGGGAGCATT ACATCATPAT ATAATGGTAC  
 TTCTCAAGT TGCTGGTCAT CAGTTCTGT GTGTTGCTG CCAAAATCTA AAGATATGAT TGINTCTCCA GGGCTGGGG  
 CCAGCAAAGT TAAAGCATCA GGTCTCTCT TAAGTTT

SEQ ID NO:1234: (Length of Sequence = 313 Nucleotides)

CCAAGAAATC TTAATINCIT TATGTTTGA CTTTTTGA CTCAATTTT TTTAAACTT TTGTTTTTT NCTGAAACGT  
 TCTTGTTGTT ATGAGCCTTT TGTTTGTGTC TGGTTAAATG CACTCGACCC AAAATTGGTT TGGCATATCG AAAAGGAGAC  
 CAAGGAGGGA GGGGCTGGGG CGTGGGAGGT GGGGAGGAG; CCGAATGGA CAGAAAGTTG AGGATAAGAG AAGAGGAACA  
 TAGAGACAGC CAGAAAGACA TGGGGAAAGA GTGTTGAGAG CAGAAAGG GGAAGGCAAG CCAAGGCCAT AAG

SEQ ID NO:1235: (Length of Sequence = 386 Nucleotides)

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CTCTCTCAGC ACAGCCTGGG GAGGGGGTCA TTGINCTCCT CGTCCATCAG GGATCTCAGA GGCTCAGAGA CTGCAAGCTG  
 CTTGCCCAAG TCACACAGCT AGTGAAGACC AGAGCAGTTT CATCTGGTTG TGA CTCTAAG CTCAGTGCTC TCTCCACTAC  
 CCCACACCAG CCTTGGTGCC ACCAAAAGTG CTCGCCAAAA GGAAGGAGAA TGGCAGCCTC CACATCTCGG GTTCAAGTGA  
 TTATCCTGCC TCAGCCTCCA AGTAGCTGGG ATTGCAAGTG TGCAACCACCA TGCCTGGGTA ATTTTGTAT TTTTAGTAGA  
 CACGGTTTCA CCATGTTGGC CAGGCTGGTC TGGAACTTCT GAGTGTAAT GATCTGCCCA CCTTTG

SEQ ID NO:1236: (Length of Sequence = 401 Nucleotides)

AGGATGTACT TCTAGTAATG TCACTGAAAG CAGATATCAA AATTCATTAC CAGGAGTACT TTGCTGTTGA ATGGTTCCTG  
 TGCCATACAG AGATAAGATG GAGTCTTTGG AAAGTTGTTT CTTTGCCACT TCTCTGATT TTTAGTTTG CTCAGTGAAT  
 AAATCTAGAT CCCAGATGT TACTGTAGAC AGGGTTGCAG CTGCTGGTGC AGAGGGTGTG CCCTGAGACA AACACCAAAA  
 TAAGCTATCA AATCTGCAT AGTAAAGCGC ANTTAATCCA TTACTTAAAA TCCAAATAAA GTTATAAAAT TAGATAGGAA  
 TCAAACAATT GTAGAAGGTA AAATGGTGCC ATTCAAGAGG ATCACTTACA AGCCCGAGCC ATATAAAACC ATCTACAATC  
 A

SEQ ID NO:1237: (Length of Sequence = 372 Nucleotides)

TTAACTCTTT CTTCTTCA GTCGATTAT AGAGTTGGAG CAAATGTCAT GATGANTTT NAGGCCTAGG CCTGNCCTCT  
 TGAGGTGTGT GTG.GTGTGT GTGTGTGTGT GTGTGTGTGT TTCTTCTCC ATAATAGTCC CAACCTAAA CAGGGGTATG  
 GCACAGTACT TCTTATGAAC AAAAGTGCTA TTGGTCTACA AGGGGACTTG AGCCTGCACT AATTGTATTT GATTAGGATT  
 TTTGTGCTGT CTGTATGATG TTTAACCACA CTGTCAATTA CAGACTTCCT TTAAGGAATT TCCAGGAAAC CCCCTTACCA  
 TAAGAGTTTA AATTAATAGT TTNTAGTTT AATGACAGCA GTTGGTAAAG GA

SEQ ID NO:1238: (Length of Sequence = 304 Nucleotides)

GGCAAAAATT CCAATTATTG TAAATGTAAA AGAAAAGACA ACAAAAATAA GCTAGAAAGA TGAAAGCTAA AAATTCTATT  
 TGAATATGT AAGATGATGA CAGATATTAA ACAGTAATTA GTCATGAAC AATCATTTAA ATGCTTTTNC CAGGGGAAT  
 GCAGAAGTTG AGACCTCAA AGAGCATGCA AGCTAGTAGG GAGGCTGCGA CTCATACCTT TGAATCTTC TGTTCTGCAA  
 ATTCTCAACT CTTACCAATT TAACTCTGCA GTACTGCTAT GGAAATTACA TAAGAGTAA TTGG

SEQ ID NO:1239: (Length of Sequence = 389 Nucleotides)

TGTTATAACT GGCCTTTAA TTTGTTTTTG GAAGTAGAAT TTAGGGGAG TTGGATGAA TTGCAAAATT AGAAGGGGAA  
 TAAGAATTTT CTAGTGCTAT ATAAAGAAAT GATGATGGAG ACAAAGCCT TGCTTCTCTC TTTTGAAT TTATTINCA  
 TTTINAGCAT ACTGTTGGGC TTTTAGAGCT AATATGATCT AAATNCAGAA AATTTAATTT TCATAGTAGG CCAGGTGTGA  
 ATTACTTATG TTTGCTATAG AATGCTTATT TAGACTAACA ATAAATTTAC TTTGCTTTCT AAGGCCAGTC AGCGAATGTG  
 GGGATGAGGC AGGATGTTTT AAATGAGCCA GAGATGATCC NCAAGGGGAA CAGTCGACAC AGAGGTCTT

SEQ ID NO:1240: (Length of Sequence = 365 Nucleotides)

CTCCAGCCTG GCGACAGAG CAAGACTCCG TCTCAAAAA AAAAGCCTTC CTTGCCAGGT GAAAGCAAGA GTGGTATGGA  
 ACATTTATTT AAACATAAGA AGCAGAAGCT TCCTCTCTT GCAAGTATGT TTTCTCTAAA TGTAGCATTT CCACTGGAGG  
 AGGTTCTCTG GTTGATGCTT TAATATGTGA GGATTGTNCA GCGAGGCAGA TAACAGGCC TCTGCATATA CAGATACCCA  
 CAGCCAGGA ATCTTGAGAA CTGAATGGCC CATAACAACC TCTGGCACTA TCGAGCTGC AGGGAGGCTT GCCTGGGCT  
 ACTCCAGTCT CAGGCCCTG TTTTAGCGG GAAGTCACAA GGAGG



SEQ ID NO:1241: (Length of Sequence = 350 Nucleotides)

GGGGAGGCGG TAGGGTCIGC NCTGTCTGTN AGGGGCTTGT GGCTTGGCGG GTGGGCTTTG CATGGTCTCG CCTCTTGAGT  
CCAGCCCCGT CCTGATGGGG CAGACTTCTG TNCGTNCTGC TTCTTGGGTG ATGTCAATAC TGAATGAGAG GGCAAGAGAA  
GGGGAAAGGG AACCGCCCAT ATGTNCTTCA CGTGTGCAA GGGGCTGTN TGGTTCOCAT GAAATGGTCA GCAGAGACTT  
TGGGATGGGT ATGACTGTG GGTACAGGG TTGACTAGAC AGAATCTAAA GAAGTGGGT GCTTAGCTNG GAAGTCTTCA  
GTAGGAACGG ATCACTGTGA AGCTCTAGGG

SEQ ID NO:1242: (Length of Sequence = 392 Nucleotides)

CTCTTACGAG TGAGGTAAAG TATTGAACAG ATATTTAAAA GCTATAAGCT TTTAAACAGA ATAGGCATAT TGCTGATACC  
AGTATTTGAC AACCGCCTTG TTTTTCAGA TAAGAAACT GAAGCACAGA GACCATAAGG CATCAGCCTA TGGTCATTCA  
CTTCGTGGTA GTACAGTGG AGGTACACC AAGGCCCTCT GGCTACTGAT AATCTCTGTA CTAGGCTGCT TTTCAGTAAA  
CTCTTGAATG AATGAAGAA AGAACACATA CTGTGACTT TTGAACTTGA ATCTAAACAA AACCTATGTT GAACCTTAAG  
TCTGTAACTCT AAGAACTATC AAACCTAAAC TTGTACAAA AGNGGTGAT GAGCACAACC ACTTCTTTT GG

SEQ ID NO:1243: (Length of Sequence = 377 Nucleotides)

GTGGGGCAGG CGTGAGTAG GGGTGGGTG GGGATGACAG TCAACACAGC TTGGACCAGA AGCCCATGGC GCCTGCTTCC  
CTGGAAAGGC ACAGGGCACA GACGGATGCC GCCTTTNTG CTGGGACACT CCTGCCACCA TCCACAGCTC CCGGCTACT  
CCAGTCTCT GTACTTGGT AACAGGTGT AAGAACCCT CAGGGTGGAT TINAGGTCCA AGTTAACAC GTCTTCAGGA  
CGAGCCTTG GTTNTNAG GCCTCGTCC AGCATCAGCT CAAAGGCGAA GGACACATTN TGGACCTTCT GATCGAAGCT  
TTCCGGAGTC AGGTAGAAGT GGTGGAGAG AACAAAGTAG TCTTCCAGAA GGCCCAT

SEQ ID NO:1244: (Length of Sequence = 312 Nucleotides)

ATTTTTCAT CAATGTTCAT CAAGGATATT GGTCTAAAAT NCTCTTTTTC AGTTGGGTCT CTGCCAGGCT TTGGTATCAG  
GATGATGCTG GCCTCATAAA ATGAGTTAGG GAGGATCCC TCTTTNCTA TTGATTGGAA TAGTTTCAGA AGGAATGGTA  
CCAGCTCTC CTGTACTTC TGGTAGAATT CGGCTGTGAA TCCATCTGGT CTGGACTTT TTTTTCGTTG GTAAGCTATT  
GATTATGCC TCAATTTCAG AGCCTGTGT AGGTCTATTC AGAGATTCAA CTCTTCTG TTTTAGTCTT GG

SEQ ID NO:1245: (Length of Sequence = 320 Nucleotides)

GGAGATCGTG CACATCCAG CCGGCCAGTG CGGCAACCAG ATCGGGCCA AGTTCTGGGA AGTCATCAGT GATGAGCATG  
GCATCGACCC CAGCGGCAAC TACGTGGGG ACTCGGACTT GCAGCTGGAG CGGATCAGCG TCTACTACAA CGAGGCTCT  
TCTCACAAGT ACGTGCTCG AGCCATTCTG GTGGACCTGG AACCAGGAAC CATGGACAGT GTCCGCTCAG GGGCCTTTGG  
ACATCTCTC AGGCTGACA ATTTCTCTT TGGTCAGAGT NGGGCGGCA ACAACTGGGC CAAGGGTCAC TACACGGAGG

SEQ ID NO:1246: (Length of Sequence = 275 Nucleotides)

TTTTTTTTT TTTTTTTTT ATCTGACAGC AATAGATTTA TTAAGTATCC CGAAAAATAT AAACACAAAC CAGTAAAAA  
CAAAACCGTA AAACGTCAGG CCTGGAGCTG CAATAAGACA GAGACAGGAG CAGCTCACAC GTGGCCTAGG TGGGGAGGAC  
GAGGCCATAA ATACTGCAGG AGGGCGGCAA GGGAGCCCTA GGGCGAGGG AAAGCAGGGT NTCGGCAGCG AGATGGCTCC  
GGGGGTTTAG ACATGCTGG CTTCGGCCCC GGGCG

SEQ ID NO:1247: (Length of Sequence = 384 Nucleotides)

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GGTCTTGCCG GAGAAGTACC CCCCTCCAAC CGAACTTTTG GACCTGCAGC CCTTGCCCGT NTCTGCTCTG AGAAACAGTG  
 CCTTINAGAG TCTTTACCAA GATAAATTTT CTTTCTTCAA TCCCATCCAG ACCCAGGTGT TTAACACTGT ATACAACAGT  
 GACGACAACG TGTTTGTGGG GGCCCCCAGG GGCAGCGGGA AGACTATTTG TGCAGAGTTT GCCATCCTGC GAATGCTNGC  
 TGCAGAGCTC GGAGGGNCGC TGTTGTGACA TCACCCCAT GGAGGCCCTG GCAGAGCAAG GTATACATGG ACTGGTACGA  
 GAAGTINCAG GACAGGNTCA ACAAGAAGGT GGTACTNCTG GACAGNCAG ACCAGCACAG ACCT

SEQ ID NO:1248: (Length of Sequence = 225 Nucleotides)

AATTTGGAGA AGATAGAAGT TTGAAGTGA AAACCTGGAAG ACAGAAGCAC GGAAGGCGA AGAAAAGAAT AGAGAAGATA  
 GGGAAATTAG AAGATAAAAA CATACTTTTA GAAGAAAAA GATAAATTTA AACCTGAAAA GTAGGAAGCA GAAGAAAAA  
 GACAAGCTAG GAAACAAAA GCTAAGGGCA AAATGTACAA ACTTAGAAGA AAATTGGAAG ATAGA

SEQ ID NO:1249: (Length of Sequence = 393 Nucleotides)

CATCTATAGT CCATACATAT CTATAATGGA CAGAAATATG AGAATGAATA AGCAAAGATA CTTATGTACA CCAATAATAA  
 AGTAAGAAAG GTAAAAAAT TCATGTAATA AGAAAAATA ACAACCCAGA AATTTAAGAN TTAAGTAGTA GTCAAATCTA  
 ATTGGAATAA CTCACCTATA TAAANACAA GAGGAAGGAA ACTTTATACA TAGGTCTGGA AAATATCACA ACTATGTTCC  
 CAGAAGANTG TTTATCTCCA CAGCATCCAA CCTAGTGTCA TGCACACAGT TGGGACTCAG CCAGTGTTC CTGATTGATT  
 ATGAAGNCAG TCACTGTGAT CAACCAACA GTAATTGAAC GTTCATTTTT AATANGGTCA GTGTAAATC TGT

SEQ ID NO:1250: (Length of Sequence = 391 Nucleotides)

OGTATGTATC TTINATTTAC ACTGCACACC TTGCAGCATC CTTACCTTGC AGAGTACTGA GTCTGGCTT CATGAATTTN  
 ATGTCAAGTA AATGGGTTTT AGTCATCCCT AGTTCATGTG CATGTCNCGA GAAAAAGGGG AGCTTCTAAA ACATGTGCGC  
 AAACCAACAG AAACAGTGCA ATCTGTGTG TCTCTATTTC CACTTACTCC TCAAGGCCCC AAGGTAGGAC GCATGTTTGG  
 TGGCTTTCTG GCTTACAAGT TCCAGTGCCCT ACTCCCATTC CCTCAGAGGT TTGCTGTGAT CACTGAGGGG AAGCAGAATG  
 GAGCATCGTG TGGTCCTTAC TGGAGGACTC CTTGCAGCAC CTGAAACAAC CCAATGTTGT TAGAGGCAAA T

SEQ ID NO:1251: (Length of Sequence = 320 Nucleotides)

GCCTCANAAG GTCTTCCCA GGCTTCTGC AAAGGAAGGC ACTGCCTCTN CACACCTTGT GAAACCTTTC CAGGACCTCC  
 CAGTCAGAGG CCGTCTGGTT CTCACTGTCT GCAGAGCGCC CTACAGCCTG TCTGTGGGIG AGCGTGTCTG TNAACTCTG  
 TCCATCTCTT CTGTGATCTG TGTGCTCCTC GAAATAACTG ATTTTNTCTC ATACACCTTG GAATCCTGAG TCCACAGAAC  
 AGAGGCTCAT ACAAAGGAAG CTTTCAAAGA GTGCTCATCG ATTTCTAGGN TTCTTGAAGA CAGGCACCAN GTTTTGTCT

SEQ ID NO:1252: (Length of Sequence = 367 Nucleotides)

CAAAAAACA AAACAGTTA TGCAAAAAA AGAGTACAAA ATGCCCCCTT CTGAAGCTCA GTTTGAGAAA CTGATTTCCN  
 ATCTAGCTTA TTGATTATAC TCAGTTTCAA TTCCCCTGT GCAAATAATA CATAAAGTCA TTAATGATGA TTTGATGANC  
 TGAATCATC TTGCTTAGG ATGTTTGAC ATCATAACCC AAATATAAAA AAGTTATTCA AGATTACAG AGATAAACA  
 TCCCTCGA AACATAATTC ACCCATGTAT ATATAATANT TTNGAACAT ACTTTTAAA CATAAATCA CAGTCAAGGC  
 AGTGATAGCA TTGCATCTC AGTGCAATTAT TTCATGTAGT GCCTTCC

SEQ ID NO:1253: (Length of Sequence = 393 Nucleotides)

311

TTGCTTTCAA GACAACACTC AGTTGCTAAA CCCATTTCTT TTTCTTTAGG ATATTTTCAT TGCTCCGAA TTTTAGAGCT  
 GAAAAGTGCC TTAGAGATCA TCTAGTTCAA CCTCTCCGTT CAAATGGAGA ACCTGAGCCA CTAAGNTTCA CAGGNGAGTA  
 AGATAATTGA GCAAACAACCT CCAAGTAATG ACAGAAAATT ATAGGAGAAT CAGTACAAAC TGTGAGAATT TACTATGTTG  
 TTAGCATCCT AAGTATGAGT TTAGAAAAGG TAGAAGTTAT AAGAAAAGTT AAATTGTTTT AATATGAATG GGATTCACCT  
 GTTACCTTCA NGNTAAAATG GAGACATACT TTTTNCITTA GGTATTATAG TTAAACGAAT ATTGIATCCN GTG

SEQ ID NO:1254: (Length of Sequence = 377 Nucleotides)

CAAAGCAAG GAGATGAGTT GAAAGACAGT TTTCNTTAA GTTCATCAGTA TGGGATGTCA GCAGAACAAA AATTAAAAAG  
 ATTAATTINC CTTTGTATCT AAAACTTCCT TAGTTTGAGC AGTAGGTGCT ACAAAATTAT TTACATATCT TAGTATCATA  
 GTTAAATGTA ATGTGTTTAG GAGAGGAAAA CAAAAGATAC ATTTCNTTAA AATTCATTAA GAAATTTTCA AATTCACCTT  
 GTAGCCCATG CTGNATAGAA TTGGGCTGTG TTGGTACATT TGAAACACTG TTTATGTTGC TTGAAACACT TATTTNTTIA  
 ATCCCGCATG TGATGATGCC TATGGCCGAG ATCANATATA GCTAGATTGG CTAGGCT

SEQ ID NO:1255: (Length of Sequence = 307 Nucleotides)

ACAAATGTTA GCTTCTCTG GCCTAGAAAA AGAATAGGNT CATCAAGTCA TAAAACGAAG TATGINATTT CAGCACCTCC  
 ACAAATGGC TTCATCAAAG AAGAGAATCC CATCACATGT TACCTCTCTT CTCTAGGTTT TCAGCTGGG GCTTTGCCCTG  
 CCCCTCTACC TATGGCAGAA CCCACTGACT CGTGGNCTTT CCAGCACTTC CACTTGCCCTC CATTAGACAC TTAACCCCGC  
 TENCOCCTGC CTCATGCCAG GGAGGGCCAA TCTCCAGNCA ATGCTNCTGC TGGCTGTATG ATGACTG

SEQ ID NO:1256: (Length of Sequence = 326 Nucleotides)

TTGAGAAAAC TGCAAGAGCT GGAAGGTCAA TCTCTGACCT TCTTCTCTGA GACACCTTCA TGTGACAGGT GTCCCACTTT  
 ATGCCTGGAG GGAAGGAATG ATAACACAAA GATACCAAGA AGAATGTGAA GAGACCTTTC TCAGTTCCCC CCAGTTCAAG  
 ACCATTATAT CGTACCCACT TTGTCTAAT CANGCTTCTA TATGACTATC CATTCTTTAT CAAAATAAA CATAGAAATA  
 TAGATTATC TCAATTTCTG TCTTTGNITC TGAAGGCTCC TGTGTACAT AAAACTTACA TTAAATAAAT TTGTATGTCT  
 CTCTTG

SEQ ID NO:1257: (Length of Sequence = 224 Nucleotides)

TTTTTINAGA GGGATTCTCA CACAGTCACC CAGGCTGGAG TNCAGTGGCG TNATCTTGGT TCACTGCAAC CCTTGCCINC  
 NGGTTTCAAG CGATTCTCCT GCCTCAACCT CTGAGTAGC TGGGACTACA GGCACCTGCC ACCATGCCCA GCTGATTTTC  
 CTGTTTINAG TAGAGACGTT GGCCAGGCTG GTCTCTTAAC TCTGACCTC AGGTGATCTG CCGG

SEQ ID NO:1258: (Length of Sequence = 329 Nucleotides)

CAGGGGTTTC TTTCCCTACC CTTTGTGAAA ACCAATCAAT TACTAGATGA GTGGATGGAT GCAGAAAAAT CTGGGCTGAG  
 CCAAAGTCCC TTTTGGAAAT ACAAGCCATA ACATTGGAAG GACATCAGG ACCTTGGCTT GTTTAGGTGA TTTTNCITCC  
 AGCTGCAGGT AGTCTTGACA AGGAGCGTTT AANCAGAAGG CTCAAGATGC ATTCTTGTG TAGGTGGNG AGAGCACTTC  
 TAATGTTAAG TGGGGTACAG NTCAGCTGCC CCCCCAGTA GCTTGACAT CGTCTINTCC CCATAATCCT TNNCATCCCT  
 ACAAGGTCC

SEQ ID NO:1259: (Length of Sequence = 374 Nucleotides)

GGTCATATGT TACATGCATG TTGTINCAAT ATGTGTATGT CAGGNCAAT TTCACAAAT TNCATAGCCC CTTCTGTGAT  
 CTGTAAATA GGTATATTIA GCCAACCTC TCAGCATAAA GCTCTACCC CAGCTGCTCC CCCTTCCAAG TGCTGCATC

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TGCTCTTGGC TGGGAGCTCG CTTCACAGCC TGTAGGATGG CCACCTTGAA GGCTGTAAACC CTTTAGAAGA AATAAAGTCT  
 CCTTTTCTAA ATTTATAGAT TGTATGATTG TTTAAGCTA ACAATAGCAA TGGCATTATC ACCTCATTCT CTGTGTGTGT  
 GCTTAGCATA GTACCTGACA CATGGCACTT GAGTTGGTAG CTATTTTTTA ATAT

SEQ ID NO:1260: (Length of Sequence = 353 Nucleotides)

CTCAGTCAAA AATAGCAGCT GCTGAATTAG CATGGGCATA CCAGGCAAAT AAGCCTGCAT TGTCATAGCG TTCCCTTGAT  
 TGCNCTATGA AACTGAGTAA AGTTTCATTT CCTGATTCAA GAATTGCAGC TAAATATATCC TCTGGACAAA GAAGAAGGGA  
 AATTTTTTGA TAACAGATGT GTTGACTCCT TACAGTATAA AGCCAATTTT TGTCATATCT CACCAACAAT CCTGGTTTCT  
 ACAGTACATC AATTTTAAAGT AATGTGCCAA ATCATGGCAG CAAAAATATG TTCCCTCTAG CTGTTAGGGA CTTTGACTTG  
 NAAAACAGGN GTTTCAAATC ATCTTCTTCA TTT

SEQ ID NO:1261: (Length of Sequence = 294 Nucleotides)

TTAAACAGA CAGCTAAGAT TATAGGAATA TTTAAATAA ACAGCATTTA TTTTAGACAC ATTTCAAATA GAAGCCACAA  
 TAATCAAATA GATATTATCT GAAAACGTTT CAAAATATT AACCTTTTAA ATGTTCTTCT CTGAAAAATT AGTTTATCTT  
 TAACAAATTA TTCTGAATTA TTGTGTAAC ATATAAGGTT ATGCATATAT ATNCACTTGC TGGTCTCTAT GTTAAAGCAA  
 ACTAGGTAAA AACTAGAGGA AATATCTGGA NCATAAAATG GTTAAACAATT TACG

SEQ ID NO:1262: (Length of Sequence = 292 Nucleotides)

ATGATGAAGG GTTGGAGTGA TGCACCTAGA AGTGAAGGAA TGCCAATGGT TGCCAGCAAA GCACCAGAAA CTAGGGAGAA  
 ACAAGGAAGG ATTCTNCCAC AGTTTCAGAG GGAGAATGGC CCTGCCAACA CTGTGATTTT GGACTTCTGG CCTCCAAAC  
 TATGAGACAA TAAATNCTG TTGTCTTAGA CCACCCAGTT TGTTGAATTT TTTTACAGCA GAACTAGGNA ACAAATACAG  
 TTTTTTTTTG CAGTAAAGAA GTTTTAAATC TGGGTTATGT CCAATGTATC AA

SEQ ID NO:1263: (Length of Sequence = 303 Nucleotides)

GGTTGAGGTT GTGGGTAGGA TGAGAAGACG ACAGGATGAA TCTTACCCCC CAGCTTTAGT GGAATTCGTG GAAACACCTG  
 GGAATGTGTT AGCATCAGGA GAATTCCTCT AAGGTATGAA GAATGACAAC CTGGGACCTT TCTTGTAGGT GGCTCTGAAC  
 CTAATATTTC CCCAAAGATT CCCAAGTGGT AGGAAGGAGG GGGTGCAGAG GGATATTAAT CATGGTCATT AAGTCTCAAA  
 ACATTTCTAC TTCAAGTGAA TACATTAAAC ATGCTGAGGC AGTTGAACAA CTGAATGCGT AGT

SEQ ID NO:1264: (Length of Sequence = 313 Nucleotides)

GGGACTACAT CAAGCACCTG CGCGACATCT GCGAGGGCTA CGTCCGGCAG TGCCGCAAGC GCGCAGACAT GTTCAGCGAG  
 GAGCAGCTGC GTACCATCTT CGGGAACATC GAGGACATCT ACCGCTGCCA GAAGGCCCTC GTGAAGGCC TGGAGCAGAG  
 GTTCAACCGC GAGCGCCAC ACCTGAGCGA GCTGGGTGCC TGCTTNTCTG AGCATCAAGC CGACTTNCAG ATCTACTCGG  
 AGTACTGCAA TAACCACCCC AACGCCTGCN TNGAGCTCTC CCGGCTTACC AAGCTCAGCA AGTACGTGTA CTT

SEQ ID NO:1265: (Length of Sequence = 290 Nucleotides)

TTTCTATGTG TAAGAGAAAA TAGAGATGGG TATACATACT GTTGTTTTTT TTGAGCCGAG AAAGTGTGTG ACCGGGGCCT  
 CAGGTGGTGG GCATTGGGGG CTCTCTTTCG AGATGCCCAT TGGCATCACC GGTGCAGCCA TTGGTGGCAG CGGGTACCNG  
 TCTTTTNTTG TTCAACATAG GGTAGGTGGC AGGCACGGGT CCAACTCGCT TGAGGCTGGG CCTGGGGCGC TCCATTTTNT  
 NITCCAGGAG CATNTGGTTC TTTTGGGGA CCCACGCAGC CCGAGGATT

SEQ ID NO:1266: (Length of Sequence = 322 Nucleotides)

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CGGACAGATG TCACTCTGCG CCGAGAAGGG GGACACTGTG ATGGTGTTCCT TAAGCTCATA GAGTGGCAGG TTGTCTGAAA  
 TGCCACCATC CACGTAGCGC ACCCCCTGGA GGGAGGGAGG GATGAGCCCA CAGTACACGG GGATGAAACC NCTGCAGACA  
 TTGGCCTGGA TGAGCTCGTC CTGGGAGTTN AAGTGGGATA TAATGACATT NTGCGCGTCT GACACGCGGG TCAGGGAGAT  
 GCCAGGCGC CCACTGGCAT GCTCATGGCT ATCAGCAGGC AGGACCTTNA GCAGGAAACT CGGGATGATC TTTTACCAGG  
 TT

SEQ ID NO:1267: (Length of Sequence = 310 Nucleotides)

GTAACCCATC CCATAGGGTT GTNCTATGTA TTCTTGCCAG GTGGGGTTGG AGCACTTGT GAGCTCAGCA GOCACATC  
 GATAGTAAGG GAGTCAGGT TTCTTCATCT TCCCTAGAGT TAGAACTCAC TTCTACAGCC ACTGTGTCAG GGACACTTT  
 GAGCGCCCTT GGCACCTGCT GGCTGGAAAT CAATTTAGCT GTAATGGATC TGGCCAGCT TTTCTCTCT TGGTCACTCT  
 GCATCATAG TGGTTGAAGC AAGATCTACC AGATGGGGAC ATTGAGATGG TCCCTTCTC CTCTCATTT

SEQ ID NO:1268: (Length of Sequence = 338 Nucleotides)

GGGCTGCTCG TGAGGATGGG ACAGCATGTA CTTACTGGGG AGACTCCCTT GATGACAGCC TTACACGGTT ATTCATAAGG  
 AGGCAGGAAG AGGCGTAAC AGTAAGCATG TTCTGGGTGG TCTCGGGGT GCACATGTGC AGCAGCTGTA CCTGCTTGCT  
 TGTAAGTTAC ATGTCTCATT AACATCTGAA ATCTCCACCC GGGAGTGTGT TTTTACTAT TATAATGAGC AAAGGTTGAG  
 TCTGAGGACA GGTAAATCA AAAATGTGCA CCTCTTACG GGGGAAATC CTTACTGGAG CTAGTTTGGC TTGAAGNGAA  
 CTGGACTACA GTGTGAAT

SEQ ID NO:1269: (Length of Sequence = 363 Nucleotides)

CTGCTAGAGA GTATTTCAGG GTCTGCAGCA TGTGTGTAAG GCCATTAAGC ATATGTTAAG GCCATTAAGA GCAGTAATTA  
 TAAAGGGCC CTGCTAAAAT AAATATCAAG TTCCCTTAAG AAACITCAA ATTATGAAAG TTTCAGGTCA TTATTTTGCT  
 ACAATGANC TTAGCAGCTA AGNAAAATGT CTGCTGCTT ATAACTAAA TATGGTATAA TTATATATIN CINTTATGTA  
 TTTCTAAAGC TACATTTTCA CCTAAGCTT ACTACAAAGT AGTTTCGGGA AACAAAGTAA AAGCAGGGGN AATCCAAGTT  
 CAAATATAAT CAAATATAT

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GATAAGTGAG ACTAATGGAA TGGTTCCCT CTAAGTTCAT AAAAAGTTTA AGGATTATCT TTCTTGAGTT CTCTGTATTT  
 CTGTTTITAGA AGAAAAGAAC AAAATTTGAG AAACAAGATT ATAGTGCTTT TNCATAAGTA TAAATACGTG GGCCCTATAC  
 AAATGGCAA ATTCATTAGT CTAAAGCAG ACATCCAAGC TATGTGGGT GTTTGGATGA CACCATTTTC ACAGTAGGAA  
 ATCATTTTAT TCTGAGCGTG GGAATCGCA TTGGTTAAG CATGAGGTTT TATGTGGTAT AAACACCTGG GAAGTGAGAG  
 AAAAGNCAGC ACAGAAGCTC TGTGGGAGCT CTTCTGAGCA TTG

SEQ ID NO:1271: (Length of Sequence = 335 Nucleotides)

ATGCTCTGCG CTGTTTGAC TGCAAAAGGT GATGTGCAGG GGTAGAGGTA GGGTACTAAT TTACAGTCAC CAAATTAGT  
 ACTGATATTA ATCAGTTTAG TTGGATTAG ATGAACAATG TTTAATGCTT TAAGNTCAT TTTTGTCCCC AACAGGACTG  
 TGCTATATTA AATGACACCG TGCCCAAAAG CTCAAAAATT ACATAGAAAG TAAAGTACTT CTGGAATACT AAAACAGTTA  
 AGCATAAAG GTTGTGAATT GGTCCCAAAG TGATATTAAC TTAAACATTT AATCCTACGN NCTATCTTAG CTGTACCCCTC  
 TAAAAATGCT TAGGA

SEQ ID NO:1272: (Length of Sequence = 323 Nucleotides)

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GTTTTAGATA TTTTAAGATA TTTAACTGTC CCTGTGGCT TTTAAGGAAA AAATAAGTAT AAATNCTTGA ATATTAAGAN  
 TTTTAAATCA GCTAAATTC A GGGCCAAGAA CTATTTAAGA TGATTCANTG AGAAAGAAAA GGACCTAACC TGGAAAAAGA  
 GTTTCRAATA TGCCAGTACG TAGGGTATTT NTGGAAATAC ACAGTCTAAA ATTAAAAAT NNAACTNATC AATGGAATTT  
 AAATCTATAG CACTTTAAGG CTGTGGAGCC CAACANTAGG GGNTACTTTG GGGGCACATG ATCTTTCAAA ACATAAATTA  
 GGG

SEQ ID NO:1273: (Length of Sequence = 368 Nucleotides)

GCAGCCTGGG CAACAAAGCG AAACCCTGAC TCAAAAAAAA AAAAAAAAAA AAAGTCTCTT AATCACAACA GCAAAGCTCC  
 AAAAGTCAA GCATCACAGG TAGCTAGTGG CTACTATATA GGNCAGCACA GACACAGAAC GTTCCAACA TCACACACAG  
 TTCTANIGGG TAGCAATGAC CTATACTGCT GACCATGCTG NCCAACATGT NTGCAGCAGT CCTCATCCC TCTGTINGTCC  
 CCTGTTACAA GCTTAGANCC CCTCCNNAC GCTCTCCCC CATAAACAGG GCAAGTNGGG CAGAAGGTGG AATCCTTTTC  
 AGGGGGCAAA T

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GCAATGGGAT CTGGAGCCAA AGAAAAATAT ATCTGAGTTC TAGCTCCTCA CTAAGTAACT GTGTGATAAT GGGTATGTCA  
 CTCACCTCT TFCAGCTTIG GTTCCTTTAT GTGTAAAAGG GAAAAACATA TGCCTACATC ATAAGGCAGA TGTGAACATC  
 AAATGTTATC AGTAACTGTC AATCTGTTTT ATTAATTGTA GAATGTCCAA AATATTAGTT TGTATGGACT TCAATGAGTA  
 TGTTTTIGGG AGTGGAGTGG GGGAAAGGGA TCATTGCTTA CCTCTGCAC ATATCAITTT TCAGCCTAGT ACAAGGCAGC  
 CATGAGCACA AAGGGCTAAG CTACTTAAAT CAGNCCCCAA ACAACTTC

SEQ ID NO:1275: (Length of Sequence = 319 Nucleotides)

AGATTACTCT TTGCAGAAAT TTGGTAAAT GTGAAGCTGA AATATCCTGA CTCTACCTCA AAGTTAATGT TTTAGGTAAC  
 TGAACAGGTA TTCTNCCCAT TACTAGTATT GAAGTCAGAA TACAGAAACA AATAGTTACT GCCAGAAGCA GAATGGAAGA  
 GCCAAAAAGT ACACAAAATG GACGCCATAA ATNCTGAAAT AAAAGTGTAT GATGTGTCT GAGTCACTGT AGAAGTCATG  
 CATTTATTAT CAAGATAGAA AAGAGCAGAG AATGACGTGG GACATTGGTC CTCGGAGGGC TTCGTANGTG GTTCGGTCC

SEQ ID NO:1276: (Length of Sequence = 324 Nucleotides)

CTGCATTGGG CAGGACAAAA CCTGCCAGAT TCAGAAGGTC ACGANTCATC TGGCCTTTAA TGCTGATATC CAGTGGAGAG  
 CTGGAGTGGG GGCTTGGGGA AATATTGACT TCCAGGACCC AGGGCTTGAG GTTTTCTNCT AGCATGATGT CAAAACCAAA  
 GAGTTCATGG CAGCTATAGG GCGTTCGCAC ATACATCTTG AGCAGGCTGG TCACATAGGG CTCTGACGAG ATGATAGTTT  
 TGACAACAAC ATCCTTTATC TTCTCCAGG TGGCGTCGCT ATTGATTNCC CTTCTGGGCT CAGGTAGTTC CAAAAAGCC  
 TTCA

SEQ ID NO:1277: (Length of Sequence = 388 Nucleotides)

AGCAAGGCGG TGGGGTAAGT NTGGACCTTT GTGTACCAGA GAGAACATCA TGGTGGCTTT CAAAGGGGTC TGGACTCAAG  
 CTTTCTGGAA AGCAGTCACA GCGGAATTTT TGGCCATGCT TATTTTNTN CTCCTCAGCC TGGGATCCAC CATCAACTGG  
 GGTGGAACAG AAAAGCCTTT ACCGGTCGAC ATGGTTCINA TCTCCCTTTG CTTTGGACTC AGCATTGCAA CCATGGTGCA  
 GTGCTTTGGC CATATCAGCG GTGGCCACAT CAACCTGCA GTGACTTTGG CCATGGTGTG CACCAGGAAG ATCAGCATCG  
 CCAAGTCTGT TTTTACATC GCAGCCAGT GCCTGGGGG CATCATTTNG AGCAGGAATC CTCTATCT

SEQ ID NO:1278: (Length of Sequence = 354 Nucleotides)

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GGACTTGTAC CCTGGGTGGT GAGAAGACCC TGATTGGTTT TATTAGTGCA TTTCGTAAAG TNACTGGGAT AATCATGTTT  
 AGTTCAGCAT TTTATGTGAG TTTCTGAAAG CNCTTTAATC AACTCCATAG ACAAGATTAT AGTGTTCAC AGCAATAGGC  
 ATGGGCCATG TCTGCACTGG AGGTAAAGTTG CAAGGTACAC CCACGGGTGA TTTATCACTC TTACAAAGAT GATACTAAT  
 GAAGACCGCA TCTAGAATGC TCTTACTGGA GATGGTTTAC AGAGCATTTT TAATCATCAT ACTTAGATTT ATATTAATAT  
 TTCTTTTCAA ACTAAATTAT TCCAACTGT GCCC

SEQ ID NO:1279: (Length of Sequence = 347 Nucleotides)

CCACTTCAGT GCTTCTGTGT CCGGAAAAGA TCTTTTGACG CATAGGGCCT AACTGTAATA CACTTAAAGG ATAAGTCTCC  
 ACCCCAAGGT GAACATGGGT CATGTGTAC ACGCACATTA GTTCATATC CATGTGTGAG GACCTCCTTT GTGAACAGTC  
 ACAGCTCTC CTATAACCTG TTAAATATGT ATGTTTGATC AACCCATTCA ACTTAAATNC TTGTCTTACC TCTCCTTCCC  
 TCAAAGTGCC TGGCTATACT TCCCAGCCTG CGGGATGGCC ACCTTCAGG ATGGAACCTT TTGTAAGAA TAAAGTCTCC  
 TTTCCAAATG TACACATTGT ATGACTT

SEQ ID NO:1280: (Length of Sequence = 344 Nucleotides)

ATCCFTAGCA TGCCGTGINT ACTGAGACCA TAACTTTTTT TTTTTCCTT CTGCCTTCAC CCAGTGTGTG TTAAGTCTTG  
 CTTGTAAAGC TCCACACTT AAATGGCTGC TTGCAGAATT GCAAAGGGAC TAGGGAGAGA AAAAAACAG ATATGCAGGT  
 GGTGGTGTGTT AACAGACAG GATTCTAAG GAGGGTTCAG GCAGTCAAGT GGTITINIGT ATGINTTTTA TGTTCATAGT  
 TTTGAGTTTT ACAATGTGTG AAGCTTACTT TTGCTAGCAT TAGGTATAGT TTATTTTGAA AGAATGAGGC TCTGAAAAAT  
 AAACATGCCC AGTAACTAT ATCT

SEQ ID NO:1281: (Length of Sequence = 331 Nucleotides)

TGAGGAACAT AAAATGGCTT GGTAAAAGTA ATAAATCAG TACAATCACT AACTTTCTCT TGTACATATT ATTTGCACT  
 ATAGATGAAT ATTACTAATC AGTTTGATTA TNCICAGAGG GTGCTGCTCT TTAATGAAAA TGAAAAATAT AGCTAATGTT  
 TTTCCCTCAA ACTCTGCTTT CTGTAACCAA TCAGTGTTTT AATGTTTGTG TGINTTTCAT AAAATTTAAA TACAATTGCT  
 TATTCTGTTT CCAATGTTAG TATGTATGTA AACATGNTAG TACAGCATT TTTTTCATAT GTGGAGTAAA AATAAAATTA  
 GTATTTTAA A

SEQ ID NO:1282: (Length of Sequence = 310 Nucleotides)

CCATGTCAA TGTAGTTTAC AAAGGGAAAG GACAAGTACC TTTNTATAGA ATATACAGAC ACAGCATCAC ACCACAGGGC  
 CCAGGGGAGG GTGGGGGAGA CGACACTTTT TCCCTGGGAA AGGCAGCTCT AATCCCAGGA ATGGTTCTCN GCAGAGGCTG  
 GGTGGCCAGG AGCACTGTCC TCTAGCCCCC TAACTCAGCC TCTGCTTCAN CTGGGTGCC ATTTCTGTCC TCTACCCCCC  
 AACTCCTTAT AAAGAGCCCC ATGAGCTAAG ACTAAGGAGA GGTTCATNTC CCTTGGGGCG TGTGCCCCAT

SEQ ID NO:1283: (Length of Sequence = 323 Nucleotides)

ATGAGGATTA ATTATATCTG TNCACCCAC ACAGTCCCC CATACCCATA ATCTTTATTT ATTINCTTGG TTTCTTCTT  
 ATACCTTGTT TCAGGCATTA AACCATACC TGTTATTTAT NCTATCCTTT TCAAAACAGG TGTGGACCAT GCACAGATGA  
 CCTATGACGG GCAGCACTGG CACGCCACGG AAGCCTGCTT TNNTTGTGCC CAGTGTAAAG CCTCTTTINT GGGATGTCCC  
 TTCCTTCCA AACAGGTCA GATTACTGC TCAAAAACGT GCAGTCTTTG GGTGAAGACG TCCATGGCCT CTGAATCTTT  
 CGG

SEQ ID NO:1284: (Length of Sequence = 283 Nucleotides)

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TTTTTTCACA AGGTGAAAGA CCTTTATGGA CATGACAGAG AGGACCTGAG TTAAGAGGGA AAATACATCT NCATAGCTAG  
 GTTCACATTC AGTTATGTTA GTCCCAAACC TACAAATTCA ACATGATCCC TATTAAATC CTACCAATAT AGTTCAAAG  
 CTTGACAAGT TGATTGTNAC ATTTATATGA GAGANTAATT AAAAAAAAAA AAAATAGGGC CAGGTGCAGT GGCTCACGCC  
 TGTATCCCA GCACTTTAGG AGGCCAAGGC GGACAGATCA CTT

SEQ ID NO:1285: (Length of Sequence = 341 Nucleotides)

CATTCINATG ATGTAGAGGC CAAAATGGTA TTTNATAAAG AGGAAATTAC TTCTGANCCA CCCAGCTGG AAACACTGGT  
 AGTATCGGCA GCAGATGTGA TTACATCCGT TTTGGTATTA CACATCGTAT TTACAGCAGA CATGACTGAN CTGGGAACAC  
 TGCCCTGTGA GACAGCCTGA AAGTTTTTIN CAGATTTTINT GTGAACACTG TCTGAATTCA CATTGCGCAA AATGATTCTN  
 CCAGTTTCTC CGGCTTCTGC TAGTTTGAGG CAATCTGTTT TATGTGCCCC AGCTGAAGAT CTTTCACTAA CTCGATCTTT  
 AGAAGCTAAC TGCATTGCTG G

SEQ ID NO:1286: (Length of Sequence = 354 Nucleotides)

GCCCTATTTG TACAAAGTGT GCATGTNAGC GTGCGTGTGT GINTTGCAAT TTTCCCCCTT TAGGTGGTTC AAATTTGGAA  
 TTTGTGAAGG CAGAGCTGAT AATTAGAGAC AATAAAAATC TGCAGAGTAG ATGGTTCAC AAACAAGACT ATGAAAGAGG  
 GGATAAAGA AGAGGTCAAG AAAGACTCAA GAACAGTATA TAGAAATAAT TCAATTACAT TATGTGTATT TTAAAGAAAA  
 CATGTTCAA CTGCATGAGA CAGAAAATAG CACTCNGTGA TCCTCCTAGA CTTCTNAAAG TTTTGAGTTT GTCTGCAATC  
 TCTTCCATT AATCGNCTTT TGCCATCTTC AGAA

SEQ ID NO:1287: (Length of Sequence = 354 Nucleotides)

CTCTCTCACC CGGTGGCCTA TAGCCCCCAA CGTGGTCAGC AGCTGCCTCA GCCATCCAG CAGCCTGGTT TACAGCCCAT  
 GATGCCAATC CAGCAGCAGG CGGCTTACCA AGGCATGATT GGGGTCCAGC AGCCACAGAA CCAGGCGCTG CTCAGCAGCC  
 AGAGGAGGCT CATGGGGGGC CAGATGCAAG GGTGGTGGT TCACTACACT CCACTGCCCT CTTACCAAGT TCCAGTGGGT  
 AGTACTCGC AAAATGTGGT CCAGCCGCTT TCCAGCAAC CCATCTGGT CCCTGTGAGC CAGTNTGTGC AAGGAGGCGT  
 NCCAGCAGCG GGGGGTACCA GTGTACTATA GCAT

SEQ ID NO:1288: (Length of Sequence = 231 Nucleotides)

TTTACTTAAT TGGTATAGAT TGAGGNTCAT GCATCANCAA GCAGTTTGA AATTNTCCCC AAGTGATTCT NACCTGCAGC  
 CTGGGTAAGA AGTCGCAGGG CTCCTGGATA GTCATTAAGT GAACTGTGGT AAGCACTGAT GTAGCAGGAT TACCTGCCCT  
 ACTAGGTGCC GGAAGTGCAT TTNCTTGCTC ACAAGTAATT TTTTAAATG TATGCTCGCA TCCCTGCCCT G

SEQ ID NO:1289: (Length of Sequence = 329 Nucleotides)

GGACACTGTG AGGGGAAAGG ACAATTTTAA AATTCCTTTT CAAGGAAAAA AAAGGTCTTT ATGCTTTGCC ATGAGGCCAC  
 AATCAGCTGC TATTTAANCT TAATATCTTG AACCTAAAGA ATGCTGACTT TNCCTACATT TCCAGAGTTA GGCAGTATTC  
 TACACTTAAA GACTACTACT ATTTTINATAA AAGGTAATCT ATTCAAATTT CTTACAGAT TTCCCTTGCT GGGGATCAGT  
 TAGTAAAGAA GGAGGAATTC CTCTTACCA AGAGGAATTG CATTGCTTTA ATTTAGCAAT GTGAGGTAAG GCCTGCCNAG  
 TGCCAGGG

SEQ ID NO:1290: (Length of Sequence = 297 Nucleotides)

GGAGGCACAT GTGCAGCTTT GTTTCATGGG TAAATGTCAT GTTTCGCGG CTAAATGTTT TTTTITACA GAAAAAGTA  
 TCAGAAATAA TCGGTAACT TTNCTCATAT GGTCTTAAT CTTCTTCAGG AAATATCTAA CTTGTAAGTG CAATCCTCT



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TGTATAGCTG CCAGACCAGA CCCAGATAGA CCATAATAAA ATAAAATACA CAGTCAGTTT TTAATGCAAG CCAGAATGAC  
TCINCIGIAT CTTTAGCCTT TCCAGGGGGA TACAGTGAAC TCAGATATCC CTGCTTA

SEQ ID NO:1291: (Length of Sequence = 317 Nucleotides)

CTATAATCCC AGAAGCTTGG GAGGCGGAGG TGGGCGGTTT ACCTGAGGTC AGGAGTTGAG ACCAGTCTGG CCAACATGAT  
GGAACCCCAT CINTACAAAA ATAAAAAGCA AGATATGCAA AATAATGTGC CAGTNTGGTG CCGTATACCT TTAGTCCCAG  
TTACTAAGGA AGCAGGGTGT CINAACAGA AGAATCACCT GAGCCCAGGG AGGTGAGGGC TGGCTAAAAA TAGATCTGGG  
GGTAGTGGTT AATNGGSCCT TGTAATNAT TCAGCATAAG GAAGTGTCCA ATATTTTTTT AAGCTGTCAG AAAATCC

SEQ ID NO:1292: (Length of Sequence = 293 Nucleotides)

GAAGATGGAA ATAGACCACC ATACAAAACA AAAAAGACAG AAGAGAATAT TAGCACTCTG TTGCAAAGGA GAATAGGTAT  
GCTCAACTGG TAAGTAGAAT GCAAATATTC CAATATCTGA AAAAAATCCC AAATCCAAA TACTTCTGGT TCCATGCATT  
TTINCTAAGG GATACTCAAC AGGTATTTTA AAAGATCAAA ATACAGATCA GAGAATATGG ATACTTGAAG ATTATGAGCA  
AAGGAGGATT AAGGNAACA TGTTGGAGGA CTTTTTAAAA ATGTGTTAAA GGG

SEQ ID NO:1293: (Length of Sequence = 310 Nucleotides)

TCCCAGAAAC ATTACGGTTT GATATCAAGT TCCATTTTA AGAGTCACCC ATTTGCCAC CATAAGTNC TGGAGAAGGT  
AGGGTATTAC AGGACTAACC TTCCAGTGGC TGATTCTGGT GGTTCACCA TTCAGGTTTC TCTGATTTIN ACAAGCTTTT  
TCCCATAAAG ACTGCATTIN CTTTAAAGC TTCTCTGCA AAANAGCCAT AAATGAAGC ACCAGTGAAG ACAATAAAGT  
AACATACAGA CCGTTTCATT GGGAGGGGGC CNGAATNG AGACAAATA GTCCCTAGTA AATGGCATT

SEQ ID NO:1294: (Length of Sequence = 275 Nucleotides)

GAATGACGAT GTCAGGGGCA TCAGGAAAGG TAAGGGCCGG GAAACCGGGC CCTTGGAGAA CCCTGCCACG GGGAGGCCCA  
GCCTACTCAC AGGNTCCGAC ACTCCAGGCA GAGCAGAGGG CAGGAGAGGC CCAAAGAGCT AGGTCAAGCA GCTGGCTCCC  
CTGGGGTTAA ATACATGGGT TTTTGTTTAA CTGCTGTGCT TGATATACAT GAAGTAATGA ATACCAAGCA ATTCATTTTT  
CCTGCATCTT TACTTTTACA TTGINCTTA GGTTCCTAA AACATTINAA ATACAATAAA ATGAGTGTAG CAAAATTAT  
TGAAGCT

327

CAACCTCTGC CTCCCGAGTT CAAGCGATTC TCCTGCCTCC CGAGTAGGTG GGATTACAGG CATGATCCAT CACGCCAAC  
TAATTTTTTA TTTTATAGTAG AGATGGGGTT TCTCGTGTG GGTACGGCTG GTCTGAGCT CTCGACCTCA GGTGATTCAC  
CCACCTGGC CTCCCAAAGT NTGGGATTA CAGGTGTGAG CCACCGGCC AGGCTACTGG TCTCAATTCT TTTGGATACC  
CAGAAGCAGA AATGCTGGGA TCACATGGTA GTCTC

SEQ ID NO:1296: (Length of Sequence = 247 Nucleotides)

GGAAGGAACA ATTGATAAGA ACCGGGGACA TCAGGGAGAG AGAGTATTG AGCTGGGCTT GATTCCATCG GGTAGTATCT  
GGAAAAAAA AAAAAATCC CAGATGAAAG AATGTACAAA GACATGAGCA TGCAGGGCAC ACTTTGGAAA ATGGGGAAG  
TCTGACAGGC CTGGGAGAAT GAAGACAAGT TAGCACCAGN TTNAGAAGGC CTTGATTACA NGGCCAAAAC TTTTGGATTT  
TACACTA

SEQ ID NO:1297: (Length of Sequence = 246 Nucleotides)

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GACTTCTTAC AATGCAGCAG CAAGAGAAAA TNAGGAAGAA GCAAAAGCAG AAACCCCCAG TAAACCCATC AGACTTCGTG  
 AGACTTATTC ACTATCACTA GAATAGCATG GGAAAGACCA GCCCCCATAG GTCCACTACC TCTCCCTGGG TCCCTCCCAA  
 AACATGIGGG AATTATGGGA GATACAATTC AAGTTAAGAT TTGAATGGGG ACACAGTCAA ACCATATCAT TCTGCCCTTG  
 GCCCC

SEQ ID NO:1298: (Length of Sequence = 263 Nucleotides)

CATTGCACTC CAGCCTGGGC AACAGAGCA AAACCTCCATA TCAAAAAAAA AAAAAAAAAA GAATTGCTGA CCTTTATGTG  
 TTTCTGTTTA AGTTCACAAC AGTCATAATT CTGTAAAATA CAAGGCAAAA CTGTAGTTTC TGATACTAGT AATATATCTA  
 ANTCAGTAAG TAAAAAGGAT GTGTAAAATC TTAATAGGGG AAATAATTAT TGTATGANCA AGCAATTTCA AAATCAAAG  
 NCACGTTTCA GTATATATTA TAG

SEQ ID NO:1299: (Length of Sequence = 272 Nucleotides)

ATCINATIGT TGTGTAGTTT ATGGCAGTGG TCTCCAGACT TTTTGGCACT AGGGACCAGT TTAATGGGAG ATAATTTTCC  
 CATGGACGAG GGGATGGGGA GGAGGCAGGG GTGGTTTCTG GATGAAACTN TTCCACCTCA GAAGATCATC AGGCATTAGT  
 TTCTCATAAG GAGGCAAAAC CTAGATCCCT TGCATGCACA GTTCACAATG GCACTCGTCG CATATNCCGT CGACAACCCCT  
 TTTTIGAGGT TCCATGCTTC CCAATTGGCT TT

SEQ ID NO:1300: (Length of Sequence = 277 Nucleotides)

ACCACTGCAC TCCAGCCTGG GTGACAAGAG TGAACCTCCA TCTTAAAAA AATGTGTAAA ATGAAGATTA TCATACTACC  
 TACATCATAG AATTGTTTTT AGTGTAAAAT GTGTGTGTGT ACATTATATGT AATAGTTAAC ATTTAAAGAG CACCTACTTT  
 GTGTAAACAT ACTTTGTATG AGATACTGTT CAAATATATA TNCTAATATA TGCAACATAT TATATATGTN AGAATAGGGT  
 CTTATATATC TTAGGAAGTT AGATCTTATA TGTTTGA

SEQ ID NO:1301: (Length of Sequence = 304 Nucleotides)

GGTTGCGGGT TATGTAAATC CAAACTTAT GAACAGGAAA TGTGTACAGT GCATGATAGG TTAAATTTTN CTTTATTGTT  
 GTCCAACGCA GGTCCTTTGG AGAGAAAAAA AGATCACAGT GCTGACCAGG TAACTCAATA GGTTAAGTCA AGGTAACCAT  
 TGAAAGATAA TAGGATTAGG GAGGTGTTTA TTTTATGGCA TCTTCTCTCA TGGAGTTCTT AGCACTTCGG ACAATTTGTC  
 TTTTCCCCAC TTTGTACAGC TGTTATGTGT CATTACCAG CCGGCTGTAT TTAACCTGCC TACT

SEQ ID NO:1302: (Length of Sequence = 335 Nucleotides)

AGTTTATTGC CATAAGAAA ACATTTTATA AAATAATATG GTAGACTTCT ACTTCAACAT ATTCACGTAA AAACATCACA  
 GTGCAAGAAA GTGATCACA TTAAGCATGA AGACATCAA AGCCAGCCAG TATTTTAACT ACAGAGCAGA ATATTCTTGC  
 TGTCCCTTCC TAGAAAATGT TGGCACATTC ATTAAGTCTG CAGGTTACAA AAATCACTTC GTGTCCACTT CCTGTCTTC  
 AATATATTIN CATAACTACA CTGTGTTACA TTAATGCTGG TGGACAAATT AGCTCCTATA AAATCTAAAA ACCTTTTCAG  
 GTGGGCACAA TGGTT

SEQ ID NO:1303: (Length of Sequence = 316 Nucleotides)

TGGAGCTGTA TATGGTCCGG AGTTATATGC AGCATCCAGC TTTCAAGCAG ATGINTCCCT AGGCAATGAT GCAGCAGTGC  
 CCTATCAGG AAGAGGGGGT ATCAACACTT ACATTCCTTT AATCATTCCT GGCTTCCCTT ACCCTACTGC AGCCACCAG  
 GCAGCGCTT TCAGAGGAGC CCATTINAGG GGCAGAGGGC GGACAGTATA TGGTGCACTC CGAGCGGTAC CTCAACAGC  
 CATCCCCGCC TATCCAGGTG TGGTTTACCA GGGACGGATT TTACGGTTGN TGACCTCTAT ATAGATTCTG CAAACT

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SEQ ID NO:1304: (Length of Sequence = 211 Nucleotides)

TATTTTTC TCTTCTCTC CCTACATATA TTCTAAACCT TCTAAAGTTT TTINATTTTT TTAAGGATCA CTTTATCATA  
 AAATAAATA TCCTTTTCAT ATAATAAATT ACCTAATAAA AAGTCTTTTT TTTTCATATT AGCCAGGIN CTTTGCTACA  
 TTTATATGGT AATAAACGCC TTTATTAAAA TAGANIATTA AATTATAAAG A

SEQ ID NO:1305: (Length of Sequence = 316 Nucleotides)

GAAATGATTC AGGGAAGAAA ATTTATAGTA CGTTTCAAC TTTTTTTTTT TTTCTTGAA ATGGAGTATG GTCATAAAAA  
 GGACATAAA TAACCTGATT AAGCTAGAGT ATAGACCAAA TTGCCACTTA CTTTGAATTG TTTTACCAG AGGTATCACT  
 TTGAATAAAG ATAACCTTCA TTAGACATCT ATCTTTATGT GTTCTGCCA TCAITTCAGT GAGATCAGAG GAAAGTTAAA  
 TTAGGAACAA TGAAAAAGCT TAAGAAATGA ACAATCATCA TGCTTTTGTG TATGCTTAA GTGAGTACAT GTAAAA

SEQ ID NO:1306: (Length of Sequence = 310 Nucleotides)

GGGGAITTTT GAAGGCTTCG CTGTGGATGG CCGAGAACCT GCTCGGGGTG TAGGTCTGTG TGTCTGGGG ACAGTTTCCA  
 CATCTGAGCA CACGGACTGG ATTTCTGAAA TGCAAAGTC TGATGCATCA CTGCCTGGC GGCTGCTGGC CCTNCTGCCA  
 GCTTTGCTTC CAGCTGACT TCCTGGTCGG CTGGGAGTCT TCTTGAATC AGCAAACTGT GTTGGGACTC TGGCAGNIGC  
 AGTTGTATC AAGCCACTGT CCTCCCCANA GTGGAAGCCT TTCCCTGATA AAAATCCTGG AAGTCGAAGC

SEQ ID NO:1307: (Length of Sequence = 302 Nucleotides)

TAATAAATAG TATATGIAGT GAAGAAAAAG TTATAACAAG TATACATTAC ATTTAACACA CCTAGCACAT AGGACACCTT  
 CAACAAACAG CTACAGCTGC TGTAATCAT GTGTATATAA TATAACATGC AAGCATATCT TCATGTATTG ATTAATTAAT  
 ACTTCTTGA AAAGGATCTG AGGAACATAT TTAATATATT TNATATGCCT GCTCATATGT NCATTTAGTG CTTATCAATT  
 ATATTTAGTG CTTTCTATT AGCTTCATCC ATTTGATTAA GATAGCAACT TGTATTATTT AA

SEQ ID NO:1308: (Length of Sequence = 285 Nucleotides)

CGCCGCCAA CGTGGTCTC CTCTACATGC TCTGCAGGGA TGTTATCTCC TCGAGGTGG GCTCGGNTCA CGAGCTCCAG  
 GCGTCTGCTG TGACATGCTT GTACCTTCTC TACTCTTACA TGGCAACGA GATCTCTAC CCGCTCAAGC CCTTCTGGT  
 GGAGAGCTGC AAGGAGGCTT TTNGGACCN TTGCTCTCT GTCATCAACC TCATGAGCTC AAAGATGCTG CAGATAAATG  
 CCGACCCACA CTACTTACA CAGGTCTTCT CCGACCTGAA GAACG

SEQ ID NO:1309: (Length of Sequence = 319 Nucleotides)

TTTCCAATTA TTATTTTGCC AATATCTCA ACTCTTTTGC CCACCTTAT CTTCCATTCA ACCCTCCCTG CAAAATCCTG  
 ATCTAAAAGC AACCAGTA TTGCTCTT CAACCTCCA GCTGCTGAGT GGTTTGGGA ATTACACAAC CACTAAGCTT  
 GGTGAGATG CACTATGGCC TCAATAGAGT CCCCCAGTGC TGCCACTTT CTCTTCCAT ATTTCTCCAC AGCAGCTGGT  
 CAAAATACAT TINTCCCAA ATGTCTTACA CAACCCCTT CTCTTATC ATCTTANCT CACCCACC CCAGTCTT

SEQ ID NO:1310: (Length of Sequence = 356 Nucleotides)

TGAAGTTTG CTCTGTGCG CCAGTCTGGA GGGCAATGTC CGATTTCAGC TCATGCAAC CTCGCTCC CCGGTTCCAG  
 CGATTCTCTT GCTCAGTAT CCAAGTAGC TGGATAATA GGCACTTGCA ACCATGCCA GCTAATTTTT GTAGTTTTAG  
 CAGAGACGGG GTTACAGT GTTGGTCAG CTGGTCTTGA ATTCCTGACC TCGTATCTG CCGCCTCGG CTTCCAAA  
 TCTTGGATC ACAGGATGA GGCACGCAC CTGGCCATAT ATCTGCTC CTATCTGCT GGTATGCT TATGCTTTT  
 ATTTATTTCA ACCTGCAGTT GTTGCAGAA CATCTG

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SEQ ID NO:1311: (Length of Sequence = 331 Nucleotides)

AGCTCAGATT CATGTCTTGA GCCAAACAAG TGAATGTATC TNAGAAGACT CAGTACCACA TGGTACTGGG AGATCTTACT  
 CACTTCAGCT GGCCTTGCTC ATTAGTGAAT GTATGACAGC AGGATGTGAG GGGATGCCCA GGAGTCAGTG TTAGCATTGT  
 CATCTGAGAT CACTGCTATT AATATCATCC ATTAATTTAT TAGTGAGCTT CACTATATGC AGACTGGGAG ATAAGGAGAA  
 AATCTGTAC ATTCTCTCTA GCTAATCAGA TCAGCTACCA ATTAATGAGA TTCTGAATGA AATATCAATA TGTGTTTTTC  
 TAATTTGGAC C

SEQ ID NO:1312: (Length of Sequence = 347 Nucleotides)

TTTTTTCCTT TATAAATTAC CCAGCTTCAG ATTTTTTNAT AGCAATGCAA AAATGGCCTA ATACACTTCA GAACCTGGAA  
 GATTAGCAGT GAGAAATAAA ATCAGTTAAG TTGATGACTT CTAGTATTTC ACTACATGGT TGTTTTGCCA AAATGAAGGC  
 AATATCAGTG TCTTCACACT TAAAAAGTAG TATATTGANC TTTGAGGTGA AAGAGCTGGG GTTTAAATTT GTNCTTTACC  
 AATTATTGAG ATAAGTGTCC TTGAGCAAGT TACTTGCTTT CNCTGATCTT TAGTTTTCTT ATTTGTGAAA TTGGAAATGG  
 TGGTGTTC GAGGGGGGTT GTATATA

SEQ ID NO:1313: (Length of Sequence = 336 Nucleotides)

GAATTCCTCT ATCAAAGTGT TCATAAAACC TGGAGCTGCA GCTGGCCCCC ATTAGGTAGT TTCTTGGTGA ACGTTTTCCA  
 AGGAAAACIT TTTTITAACA ACTTCATAAA GCCAAGCACA AAAGGACATT GCAATGACTG GCTGAAAGAC ATGGGACTTT  
 TTGCTTTCGA CGACTAAAC GTTAAATGGG GGCTTACTTT GTGCATTTAT GGAAGAAAAC TTGGAAGGCA TTAAGGCTA  
 CATTTTGAGC CTTCATGAT TTCAATCATT TATGCATGAA TTCATTGTG CAACATTTAT TTAGTACCCA CTATATGCCA  
 GGCACGTGC CAAATG

SEQ ID NO:1314: (Length of Sequence = 391 Nucleotides)

CCGGTTTAGA CCTCAGTCGG CGCTGTGAGG GCACTGTCCG CCCACCTGCT CGGCTGGCTG AGCTAGGTCA GTGGAGAGAA  
 GCTGGGGCCA CTCACACAGC ACAGCAGGCC ACAGTCTACA GAGTACGCCA GGTAGAGCGG TTAGAGTGGC AGCCGCTGGA  
 GAAAGGGTGA TAGAAACACA TCCCTGACTC TTTGGTTATG TCCACGTCC TCTGTGTCTC CTTCCTCTC CCTACTCTCC  
 TTCCTTTCTG CCTCTGTG TCCCTTGGA GTCCCTGTG TCAGTGCAAT TNAGTGCAAT GACGTGTCTT AAACACTGAT  
 CTNCACACAC CTCTTTAT CTTCACCTG ATAGGCAGGC CCCAGANCC CTTTTTCTT AGCTTTGTTC T

SEQ ID NO:1315: (Length of Sequence = 374 Nucleotides)

GAATTCCTG GAACACTGGT GTTACAGAG AGAGATACTT TGTTGAATGG AGCTTACATG ATGAATGAAA AAGAGACCGT  
 TAAAAGTAC TAGCCGTTGT TTACAAATAA CTACCAGGTA AACAAAGAAA TCACTTTCTT TCCCCTTCTT AAGGATAAGG  
 GAGAATAAAA TAATCACCA GAGGCATGGA GTTTGAAAAG TATATAACAG ATTCCTTTAT TATTATTTAC AATCAAGTTC  
 TGTGGNCAA CATAATGAAA TAAATAAAG ATGTGCCCTG GCCTGTGAAT TTCAACTCTC CTTGACTTAA GTTCTCTGAA  
 GGGCAAATTG GAAAGCGGTG ATCAGGCAGG GAAGAGAGGG CAGGTGGAGG CCAG

SEQ ID NO:1316: (Length of Sequence = 353 Nucleotides)

CTGTGTTACA GGTGTTGAAA GGTGTTGAG ATTAGTATTT ACTTTTAATT TTTTGAGTAA TAGAATGCGT TTAGGTTCTA  
 AATTACTATG GAAATGGCAT AGTGAGGATT CTNCACAGAT ATTAGAGACC TTCAACAACA TAGTGAAAT AGATTTGTCC  
 TTTCTGTGA ATAGCTGAAC TATGAAAATT TGANCTGTCA CTGGAGGGGG CATTGCTNCT GAAGTTGCCC AAAGTAAAAA  
 TAACCTTNC CTTTAGTAAG AAAAAGCTAT ATTTTNCAT ACTGCCTGCC ACAGCAACAA AACAACTCT TGTGTTGTT  
 TTAATATTGG CAAAGGAAAA ATTCTCTATA TAA

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SEQ ID NO:1317: (Length of Sequence = 316 Nucleotides)

GAATTCGGAT TATAAGCATC AATATGCATA AAATGCTTAG AGATGGACCT GATATATAGC AAACACTCAG TAAATGTAA  
CTATTATTAT NACAGCACAG CAATTTATTT AAGATTACTG AGTGTTCAAA TGAAAAAAA GACATATTAA CTATATAGT  
GCCATTTCTG ACATAAGAAA TACACAAATA GAGGTAGTTT CTGAAACAAA GATCAAAAAA ATCTATGTGA TGGTGTCTTG  
TATCAATGTG GCTAAAATTT TCGAGCTAAG TTTTATNAAA GACAGATCAT ATTTCAAGTA GGTGATTTTT GTATTG

SEQ ID NO:1318: (Length of Sequence = 300 Nucleotides)

GTGGGACTAC AGGTGCACGC TATCATACC AACTAATTTT TGATTTTTTA GTAGACATGT GTTCCCAT CTGGCAGGG  
CTGGTCTGAA ACTCTGACC TGAGGTGATC CACCTGCCTT GGCTCGCAA AGTGTGGGA TTACAGGTGT GAGCCAACAA  
GCCTGGCCCA TTTATTTACT TTTTAAATTT CATTTTCTT CATCATGTAG AATGGACAT TTCAGGAAC TGATAGAAA  
TACTGTCTAA CATCAATTT TCAAAAAGT TTCTCTGTA CAGATAAGGC AGTCAATTC

SEQ ID NO:1319: (Length of Sequence = 306 Nucleotides)

CAATAAGCTT TAAAAAGTTA GTGCCACATG ACCAGCATCG ACTGGCCTCA GACATCTGCA AGCACTCACC CAGGCCACAG  
GGTCAGGTAG AGGGCTCTG GGGCCACTGT AGCCCTGCT GGGTCAGTGT AGCTGGAAGG CTACGGNCC TTAGTGGGA  
GCCACAGCT TTCCACTAG GGGGCTCTC ACTCTGACAT CTCCCTGTGG TGTGGGACC AAGGGTGGG AGGGAGACAC  
GCTGGCCCTA AAGGGAGGTG GTAAINAGTG AAGATCTCCA GGGCCAGNCC ACAGGGCTCC GTCCAT

SEQ ID NO:1320: (Length of Sequence = 373 Nucleotides)

GGTCTGATC TCTGACCTC GTGATCCACC CGCTGGSC TOCCAAAGTG CTGGGATTAC AGGCGTGAGC ACCGTGCTG  
GCGAGATAA TTATTTTINA GTGACGATTT AGCAACCTGA AAACCTTGGG TCTTTGGGAT ATGACCTCAG TATCAACACA  
GAATATTGA ATGCTGGTTA ATATATTINT TTAAACTGT GATAGAATTG AAATCTGTGA GCCACATTTT GAAAGTTTAT  
TCTCATTA CTAGTCTTTT CTCACCTGAT TTCTACAAG AGAGAATTTT CAAAAGGTT AGTTGTGTT ACATTAGAA  
CTTGGGGTTT GNTGACATG AAATGTTTCT ACACCAGCAG GTCTCAGATG AAT

SEQ ID NO:1321: (Length of Sequence = 366 Nucleotides)

GTITGGCTAA TCATCTATG ATTTTCTAT AGCTTGAAA CTTTTATAT CTAAATTTT TINATAATTT TGAAGTATTA  
TTGTTGGGCT TTGTATATC CAGTGTATTT TCAATTAAAT TCCCCTAAT AAAGTAATC AAAAGGAATA AAAGTGTAT  
GTGGGCTGGG CGTGGGGCT CATGCTGTGA ATCCAGCAC TTTGGGAGG CCAGGGGGC AGATCACCTG AGGGCAGGAG  
TTGGAGACCA GCTGGCCAA CATGTGAAA CCTGTCTCT ACTAAANIA CAAATAGC CGGTGTGTT GGCACATGCC  
TATAATCCA GCTATTTGGG AGGCTGAGTC AGGGAGAATC TCTTGA

SEQ ID NO:1322: (Length of Sequence = 362 Nucleotides)

AGGGAGGTA AAACAAATCC CCTCCAATG CTTGTAGAA GGGGATTAGA ATCACTGTGG AATTGGTAT TGGCTAATAA  
AGTATAAAG CTAAAGATCA ATGCTGAGT GCACAGTGT CCTTCAAGCC ATGTACTTC TCCTTCCAA GANTAGANGA  
CTACTTTTA ACCAAGANTT AAAAAAAN TCATAATTA AACACCTCT TCATGCCAAA TGAAATCTT AGTGTGAAT  
AATCAGGCTC ACCTGAATAC AAAGTTGTCC TGAAAATGCT GACAATCACA AAAAAGGTT TAGAAGCTTT TTCAAAAAC  
AAGTTCAGAT GGTCCCACT GAGTTACTAT TTGAGGTAA AG

SEQ ID NO:1323: (Length of Sequence = 244 Nucleotides)

CGACCTCAGT GTAAATCACA AAACGGGAAG AGCTGATATT GGCAAAATAA TTACATGGCT CATTTCCTTG CATGTCAAAA  
TAGGATTGA TTGGTTGTAA AAGATGACAA ATACCTTNC GGTTTCAATG TTCTTAAGTG GGAAGTCACT TATTACAGAC  
CINATTGGGA GTAAACAAAG CTGTTAGACC TTTCATTATC AGTCCNNTTA ATCCCTTCAA TAATCCCCCT AAATCAGTGA  
GGCG

SEQ ID NO:1324: (Length of Sequence = 279 Nucleotides)

GATCCATGCC ACAGTGACCT CTGTNACCCT GCACAGCACA GAGGGGAAAG CCTGTACCA GGTGGCGTAT GAGAATGAGG  
TAGGCAACAG CTCGACTTC TATGACATCG TGGTCATCGC CACCCCCCTG CACCTGGACA ACAGCAGCAG CAACTTAACC  
TTTGCAAGCT TCCACCGCC CATTGATGAC GTGCAGGGCT CTTTCCAGCC CACCGTCGTC TCCTTGGTCC ACGGNTACCT  
CAANTCGTCC TAATTCGGTT TCCCAGACCC TAAGCTTTT

SEQ ID NO:1325: (Length of Sequence = 338 Nucleotides)

TCAGTTATTT GTGTGTGTGT GTGTGTGTGT GTGTGTNCAT CTGCAAAACC TGCACTTCAT TATCCAAAAA TTATTGATA  
TTTTATAATC AGAGAAAATG CTATTTTAA ACCCTACCAC TGCTGACCAA ACAACAATCA CAACAGCATA AACTAAATA  
CTGTTCAACA AATCTATTTT AGTGTAGTAA TTAAATAATT CCTAAAATTA TAGACATCCC TAATATTCTT TCCNTTAGTG  
GTTCCTCAGA GTGCAATCTG TGGAGCAACT ACCTGAAGA AATTTGGGGG AATGAGACCN TGGGAACCCT AAATGTTTAG  
NATGGTGCTC TNGGGGAC

SEQ ID NO:1326: (Length of Sequence = 393 Nucleotides)

AACTTTGAG GGGACACCAT CACTCAAACC ATAGCTGTAA ATCTATTCTT TGAGTCCAGA TCACAAATTA CCAAATGAAC  
ACGTTCTCCA TTTTATGATC TTTTATACCT GTAACCTCT GTCTACCTAA GATGAATATT TATTCATTGA ATGAATCATT  
TAATTTTGGT GCCCCAAAT TCTCAGTGAA ACAATTTCTG GATACCTCTC CATCACTAAG ATAATCACTA TAGCAGTGTG  
ATATTCTTCA ACTTGNACA AATCTAAAGG CTCCATTAT CCTACTAGA AGTGTTCTGT TGCTTTTTTC ACTCTCAAAA  
TATCTCCAT GGCNAACCA AACACTAANG GGNACCACCA TATCTTGCTC AATGGAGCN AAATCACTTT TTA

SEQ ID NO:1327: (Length of Sequence = 381 Nucleotides)

CTTTGGAGAA TTAATTCAGC AGTTGGTAAA ATCATCTAT AATAATGGT ACCATTCTGC TCTGTCCAC ATTTTATGA  
AGTCTCTTAA AATTTAAAA GGCAATGTGC TTTGTGTTT TTGAGCAACT TAAATACGTT GCTCTGAATA GTTATTGTGA  
TGAGGTAATT TGTAACAAT TTTAGGATCA ATGCTAATTT NCTTAAATGT TTCGTAGT TTCCCTTTAT TATAAGTAT  
ATTAGGCTGG ACTCTTGGCT GTAAGTGGCA GAAACTCAA CTCAGATTAG TTAAGAAACA AAAGGGTGT GGTGACAGTG  
GTGGCTTCA GACTATTGCT GCAGGCCAC CTGCCATCT CTTACACCT CAACATACCC T

SEQ ID NO:1328: (Length of Sequence = 289 Nucleotides)

AGAAGAAAAT TCCTAAGCAG AGTACTTAAG TACAAAATTG AGTGACTGAA AGATGCTTAA TCTAGGGAAA TTAAATGAGA  
AAAATACATG GTGTGTGINT TGGAGGGGGA GCTGGAATTG GAATGGGCTG GAGTGATGAA AAAAGCCAA CAGATATAGT  
CTTCTGTTT GTAATATAGG CTCAATACTA AATTAATGAG GACTAGATAA TCTAGGTCTT AATGTCTCT TTTTGCTGGC  
AACCTGGGGG CCAATTACAC TAGAGGGTTG GTAGAAAAA GAGGAATAT

SEQ ID NO:1329: (Length of Sequence = 364 Nucleotides)

TGTATATTT GGTATTTTAA ATAATCTAGG GCACGTGGAA GATAACAGG TATTTTGGAT ATTTCCTAAT TGCATCTCT  
ATATTTCTGT GTAAATGCCT ATACAAATGT TTGCTTGGTG ACATATGGAA AACTTAAGN CTTTATGAA AAGGCGACAA  
TGGGGACCTC CAAAGCGCCA AAGTTTCTGC TAGGCATAGT GTTATTTTAA GATTACATTA AAATGGCTAT TTAGACCCAT

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CTAGCTGAGA CTATTCCAAA ACAAACTTTT TATCANATTG TNATCATAAT CAACTTTCTA CAGGCTAATG ACTTTATAGN  
TTTACTINCTA GTGTATATCT ACTAGCACAA TTGGACCCAG TTCC

SEQ ID NO:1330: (Length of Sequence = 221 Nucleotides)

CAATATTTAA ACAAAATGCA AACTIGAACG TTACCTCAA ATGAAACAGT GTGTGTACTG GCTGTAGAA GTTGATGGCG  
GTCTACTGTT TGATAITCAC TGCCATCTTC CTCGCCCCA CTCACCTCA ACTCGGACC GCCTCACCTA ATGGTGGGCT  
TTGCCGCTTT ATGCCNTGTA GAGNAGACAC TGGGTAAACCA CAGCAAATCA ACACGGGNTC C

SEQ ID NO:1331: (Length of Sequence = 279 Nucleotides)

AATAGAGATA ATGGTCAACT CTGAGAAGA ACCAAATGCT GGTGCCATCT TGGAGTGCT ACATCACTC CTCCTCTTAC  
TTCTTGAAC AGCAATATTT CTGGATTTCT TCTGCAAGCC CCAGGCAGTG CAGGATGGT TTTTTCAG CAGCCAGTTC  
CTTCTCAGAG AACTGGCCCA AGAGTTTCTG GACAAATATA TTTTGATCTT TCAGAAATAT GTTCINATTC ACTCCTACAT  
TTGGCATT NITCAAGGGC CCAGACTTGA AATTGGAGG

SEQ ID NO:1332: (Length of Sequence = 290 Nucleotides)

GGACGAGGAG ATGTCTTTGG TGGACTTGGG AAAGAGGTTG CTAGAAGCAG CAAGAAAAGG CCAAGATGAT GAAGTGAGAA  
CGTTGATGGC AAATGGGCC CCATTCACCA CAGACTGGCT TGGAAACATCA CCCCTCCACC TTGCAGCTCA ATATGGTCAT  
TATTCACAG CAGAAGTACT CCTCGAGCA GGTGTAGCA GGGATGCCCG GACTAAAGTA GACAGGACCC CCTTGCACAT  
GGCTGCAGCC GATGGACATG CGCACATCGT GGAACCTGCT TTTTGGAAAT

SEQ ID NO:1333: (Length of Sequence = 201 Nucleotides)

CGCCAGCTA ATTTTGTAT TTINAGTAGA GACGGGGTTT CATCATTINA GTCAGGCTGG TCTCAGACTG CTGACCTCAT  
GATCCACAG CCTTGGCCTC CCAAAGTACT GGGATTACAG GCATGAACCA CCACGCCAT CTGATTTCCC GTTTTCTGCA  
GGGTAAAGNC TCAGGGCCGG CCCATTGNTT TCAGGANITT T

SEQ ID NO:1334: (Length of Sequence = 267 Nucleotides)

NNATACTTT TTGTGAAAT TTAGAAAATG TGGATCTTTT ATACTTGCTT TCCCTTTCT TCTGCCATCT TTATCTCTG  
CTGAAGGAGA CAAACATAT TTAGGTGAC ATCTATCACT TTAGTATGGA CCTGCAACA CTCATGTTGT CTTOGGACAG  
ACAAATGGAG AATGTAAATC TGTTACACTG TGACAGGATA TAATINTGGA TTGCATAGN TINCAACAA GTGTCTGTGT  
GATGANTAAA TGGTAAATA TATTTAT

SEQ ID NO:1335: (Length of Sequence = 279 Nucleotides)

GGTCTTGTT AGAATGCAGA TTCTAATTAA AAATGTGTAG GACAGGGCCT GAGACTGGT ATTTCTAACA AGTTCCCAAG  
TGATACTAAT GCTACTGCTT CACAGATCAC ACTTTAAATA GTAAGGTTCT TGAGAGAGAT TAGTCTCAAG AGAAAAGAGA  
CAAAAATCTC CAGAGCAGGA AGACCAAGAA AAAAAATGG AAAGTAGCCA GTCGATTATC AACTAGATGG CCTTAGTGAG  
ATTCTGCACA ATATTTCATC ATACAAAAT GNTTCCCA

SEQ ID NO:1336: (Length of Sequence = 398 Nucleotides)

TTTTTAAGC ACTCTGTGT GGACTGGTCA AAGATGTTCC TAAACAACA TTGCTGTCAC CAAGCCTCC ATGANTTAGG  
CAAGTCTC CCATGTGGT AACTGCTTC GCATAGTTG TGAAGAGGAA GCATCTCAG TCAAGCTAC CAGCTTAGGA  
ACCCTTAGGA AACCCGCTG GTACCTGGCC TGTTTTTGT AAGTATACAT CAGGCCAGG GGCTGCTGC CAAGCAACAT  
CATTGACTGC ATACTGTTTA GTGCATGCAT TACCAGGGCT CAAACATCCA AGTGATGCTA CCTGAATAAG TCGAGGAATT

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TTTGATAATA AACATAAGCC AAATCCAAAA AAATGTCTG GGTITTTCCA TCATTTCAC TCATTAGTNC CAGGAAAA

SEQ ID NO:1337: (Length of Sequence = 272 Nucleotides)

CTTTCCTCAG TATCACAGT ACCTGTITIN CTGGAATTTA TTTAAATGT CACCTTGTAG TGTTCCTCT CTAGGGCTGT  
TGTITTCATT TCCCTCTGAA TGAATGCTGC CACACGGTCA TATGTGAGCC AAGTTTACAA GAATGGAGTT GCTGCTGAAG  
AGATCTCTCA TTCATCTCCC CCAGTGCCTG TCCTTCACAA TCATAACGTT ACCCTTGCTT GACAAATATA CTGTATGGCA  
AGTCATAAAG GTCTTNGAAC AGGACTTGAC CC

SEQ ID NO:1338: (Length of Sequence = 212 Nucleotides)

TAGTCCCTT TATATAATAT AATCAAGTTC CTCCATCTGG GCATTGAGT AAATTCTACA ACATTGCCAA AATCTGATTT  
GACTCTACAG AATATGTATA GTTATTTAA CCAGATAGTA ATTTAAATTT TTACAACATG CGTATTTTCAT GTAATATTAA  
TAACAGTAAT TTAAATTAAT ATTCAATACA TACCGTTTGA ATTTTATAA GG

SEQ ID NO:1339: (Length of Sequence = 280 Nucleotides)

TTTTTAGGAA TAACAAATGT TTATTCAGAA ATGGATAAGT AATACATAAT CACTCTTCAT CTCTTAATGC CCCTTCCTCT  
CCTTCTGCAC AGGAGACACA GATGGGTAA CAGAGGCAT GGAAGTGA GGAGGACACA GGACTAGCCC ACCACCTTCT  
CCTCCCGGTC TCCCAAGATG ACTGCTTATA GAGTGGNGGA GGCAACAGG TCCCCTCAAT GTACCAGTGT GTCACCTATA  
GCACCAGCTC CAGATGGCCA CGTGGCTGCA GCTGTACTCA

SEQ ID NO:1340: (Length of Sequence = 324 Nucleotides)

CTGTCCACC TCAGATCATC AGGCATTAGA TTCTATAAG GAGTGTGCAA CCTAGATCCC TCCCATGTGC TGTTCATAGC  
AGGATTTGCA CTCCTATAAG AATCTAATGC CACTGCAGAT CTGGCAGGAG GCGGAGCTGA TGGTGGGAAG GTGGTATTGC  
TCGCCTCTC GCCTACTGCT CACCTCTGCT TGTGGGGTCC AGTTCACCAC ACAGACCACT GGTCTNTGAC TCAGGGACCA  
CTACCTCT AACANGNTG AGGAAAACAA CTGGGTTCAT CACACAATTA TTTTAAAGTT CAGGTTTNC AAATAACTTA  
TCC

SEQ ID NO:1341: (Length of Sequence = 376 Nucleotides)

CTAATCAAGG GTACAAGATG TCTAANTCAA AGGCCAGCT CTGCTTACAA GTCAAATATC TAGGCCTAAT CTGGCCAGA  
GGAACCAGGG CCTCAGCAA GGAATGANTA CAGCCTATAC TGGCTTATCC TCGCCCTAAG ACATTAAAC AGTTGTGGGG  
GTTCCTTGGA ATCATTGGCT TTGCGGACT ATGENTCCCC AGATACAGCG AGATACACTC TAAGGAGACC CAGAGGGCAA  
ATATCATCT AGTAGAATGG AGACCCAGAG GGCAATACT CATCTAGTAG AATGGGGACC AGAGGCAGAA ACAGCCTTTC  
AAAACCTTTA AAGCAGGCC CTCTTNCAG CTCCAGCCTT TAAGCCTTNC CACAGG

SEQ ID NO:1342: (Length of Sequence = 335 Nucleotides)

ACCTTCCCC ACTCCCTGGT CCGGGGAGC AGCTCCTTCT GCCCGANTNA CTCACAGTGC AGGGAAAGGA GGCAGGGAAA  
AGACCAGGAT TCTGTGAGTT CTGAGGTTC CACACACAAA GAAGCTGTGG TTTCTCTGCC TGGGCCACTG ATGAGACTAA  
AACTGGCTTC CCTTGGAGA CGGCAGATTT CAGGCTGATC CCTGCTTAAG CCTCTCATC CCCACGCTGG TCCTGGTATT  
GATACAAGAC CCAGCTGTG ACMAAGCCTC CAATCCTGGG GGTCCACGGA GCCTGGGGCT GANATTTCCA GGAACCTATC  
GCCAGTGGGC GCCCA

SEQ ID NO:1343: (Length of Sequence = 379 Nucleotides)



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GAACCCAGGA GGGGAGGTT GTAGTGAGCC AAGATCGTGC CATTGCACTC CAGCCTGGC AACAGAGCG AAATCCATC  
 TTAAGAAAAA AAGAAGGGTG TGATAGTTAA ATTTATGCAT CAACTTGGCT AGGCAATGGT GTCCAGATAG TTGGTCAAAC  
 ATTATCTAG ATGTTTCTGT GGAGGTTATT TTTTAGATGA GATTAGCCTT GTAAACTGGT GAAATTTGGG TGAAGGAGAT  
 TACCCTCAT AGTGTGGTGG GTCTCATTTA ATCAGCTGGA GGCTCAATA GGGAAAAAGA CTCACCTTNC CCTGGAGCAA  
 GAAGGAAATT CTGCCCAGC AGAACTTCTT NGGCAGCAG AATGCAACCA TAAACTCTT

SEQ ID NO:1344: (Length of Sequence = 400 Nucleotides)

GACGGATGGG ATGGGGCTG TGCTCTGCAG GTCTCCCCA GAGATGTTGT CATACTGOGA GGGATGCGC TGTAGGACA  
 CCGTCAGCC AGAGCCGTC GCGTCTGNG AGGCTGCGCT CCTGCGCTTC TTCTGGGGA GAGCAGGTGG CGTATCTNIN  
 TGCTGCCCTG GGGCCAGAGG TCGTNTGGC TGGGATGGC CGCAAGAGG CAGCTGGAAA GGAGGGCCAA GAAATGGAGA  
 CCCAGACTCC CCCAAGACT CTGGCAACGG GCTAAGGTT CAGGGCCGTC TGCTGAGGTA TCTGGTCTGC GTTAGAGAGG  
 TCTTCTGGA GGAATTCATA GTGGGATCA TAGCAGATCT TGTCCTCTT CTATACCATC TGTCCTATTT GGAGATNGCT

SEQ ID NO:1345: (Length of Sequence = 347 Nucleotides)

CCTCTCCCC CAAGGAGCTT GCAATTTAG GAACTAATC AGTTTGAGG CTGAATTTAA GTTAAATCA ATTACTGCCC  
 TATGACTCC TTTTAAACA ACATTAGGTC AAGACCTTT CAGTGCTAAA TAACTGATT TGTCATTATC ATACATTCAA  
 GTTTTATAAA TGTTTCTT CTCACCTCAC TGAATATCA GAATCCAGCT CAAAAACAGA ATCAAAGAGG AGACTTTTAA  
 GCTTATTCAA TAAAACTAT GTACGGTAA TATTCAAAT AGTGGAAATC ATTATATTAT CTAAATTCT CAGGAACTG  
 CTTTAACCAT GGATTAAATA ATTTACC

SEQ ID NO:1346: (Length of Sequence = 287 Nucleotides)

CAAGICAATA CCATAATTA AGTCAAGTTG CCAGCCTTAA TTATATTINT NTCTGCTOG TTCCTCTCT CTCTCTTCC  
 CTCTCTCCCT CTCTGCCCCA CCCCCGTGTA CATATATAC CAATTCATTG GAGATATATA TATGINTGIN TINTGINTG  
 TGTGINTNC TGTGTGTG TGTGTGTAA AGAAGCAGGA TGCTTACAC AGATGTTTCA TATATTGAGG NATTACAGAG  
 TAATTACAGG GAAAGGTATT ACATGTTCT TCAACACCT AGGCAGT

SEQ ID NO:1347: (Length of Sequence = 295 Nucleotides)

ATTAAACAAC TTTTAAAC TTTTGTGCA CAGGACAGAA AACTGCCTGT ACATGCTATG TCCCTTTTG GAACACAGAT  
 TTTTAAAT TATGAATGCA CAAATCTTA CATATCATGC AACTCTATGC CAAGAACCCA ACTTCTTCC ATGCAACAGA  
 TATGAAGATC TAAATGGAAA CTTAGCTAAG TCTTAAACAC TTTTCCAGTA GCAAGTATAA TATATGTTGT TGAGGGAAAA  
 CCAGTCTTAA CAATTNCTTG TACACAATAT TCATGTGCCA AATACAATGN CAGN

SEQ ID NO:1348: (Length of Sequence = 332 Nucleotides)

AGTCCCTGCT ATGTGGATAT TTGGTAGCAA TGACTGATGT GGAAACTACA TATGCAGATT TTATGCTTC AGGAAGAACA  
 GGTAGAAGAA ATGCAATACA TGATATCTG GTTCTCTG CAGTGGCAA CAGCAATGAA TTAGCCTTGA AATTAGCAGG  
 TCTTGATATC AACAGACAG AAGGTGAAGA AGATGCACAA CGAANTTCTA CAGAACAAG TGGNGGAAGC CCAGGGAGAA  
 GCAGCAAAAT CTGAAAGCTT AACACCCAC TTTGACCTC GGCCACACCT GAAATGTCT CAAATCTCCA GGGNGTATCT  
 GGGAATGCAT TT

SEQ ID NO:1349: (Length of Sequence = 295 Nucleotides)

GCCCCAAAA CAATGACACA AAATTCATTT GGTAAATCA TGTAAGGAA AAAACAGCAA CACCACCACA CAAACAGGAA  
 AGTGGGAGTA TGATTAGGAG GGTGAGATG AAAACTATTT TACAGTAACA TTTCCACCA AAGACTGTCC TAAGAACAG

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CTGTCAATAC AGTTCACAGG GAAAAAGCAA ATGTGGTATT TTTTGTATT TTTTAAAGC TCCCTGGGTC CCAGGTGTTT  
TGCAGTTTTC AAGNCTTAT CTGCTAAAGG AATGCCCTTT TAGGGTCACA GCAGGT

SEQ ID NO:1350: (Length of Sequence = 317 Nucleotides)

CTGTTGCCCA GGCTAGAATG CAATGCGTG ATCTTGGCTC TCACTGCAAC CTCACCTCC CAGGTTCAAG TGATTCTCCT  
GCCTCANICT CCTAGTAGC TGGGATTACA GGTGTTACC ACCACGCCAG GCTAATTTT GTATTTTATAG TAGAGAAGGG  
GTTTCACCAT GTTGGCCAAC CTCGAACTCC CAACCTCAGG TGATCCACCT GCCTCAGCCT CCCAAAGTGC TGGGATTACA  
GGCATGAGCC ACTGTGCCTG GGCCAATAAA CTATATTTTN TCAAGCCAAA GTAGGACAAG CACAGTTTTT AAAAGGG

SEQ ID NO:1351: (Length of Sequence = 349 Nucleotides)

CGGATGGGTG GGATGAGACT TCAGCTTAT TGGAAATGTT TTATTTCTT ATCTAAAAA ATACTAGAAA GAAATACAAC  
AAAATGTTAA CAGTTGTAA TGTCGGCTC GTAAATATA GATATTGTT TACTTTAGTC TTTTTTTTAA TCTCAACTAA  
ATTAAAAAG GAATTTTATG CTTTTTTTAT CTCAACTAAA TTAATAAAGG AATTTTAAA CCCTAGTGT ACATGCAAGT  
GAGTCCAATA ATGGCAAAAT AATAATGAGG NTACATAGGA AGGGTGACCT AAATTTTAAT GGGTGAATAC TGGGTCCCCG  
GTACAAGTTT GANAATTTT GAATTTCCG

SEQ ID NO:1352: (Length of Sequence = 304 Nucleotides)

TTTTTATACT ATTTAAAGA ATCCTTAAAT GATGGGTATT CTCTAAAGCA TGCGGGGCTT AAAACCTAGA TGATGGATTG  
ATAGGTGCAG CAAACCACCG TGGCACATAT ATACCTATGT AACAAACCTG CACATTGAGC ACATGTATCC CAAGACTTAA  
AGTAAAGTA AAAATTAAA AAGATGGTA TTCTATATT ATCTTTCATG TTACATTTT CTTGTGGGG TTTCTAAATA  
AAACTGTAA CATGAATGT TTAITCTCAT TCTGTATTT AAAAAGAAGC TGAGTAACAA AAGG

SEQ ID NO:1353: (Length of Sequence = 307 Nucleotides)

CTTAGTCTGA CATTAGGTTA TGAGAAGTAC AAAAGATCCA CAAGTACAAA AAAATCTGTA TAGCTTTGCG GTAGTTGAAA  
AAAATGCAAG AGAACAAAA AATTTTTTGA GTAATATCA TCTCTGCAGA TCTGAGTGAC AGTCCGCTTG AAACACCGCT  
GTAAAAGTGG TAAAAAATGA TTTCAATGTG ATTATGTAA AATTTTGTAT GTCTCTNTA CTGTGTTTAG GGGAACTCGG  
TCTTCTGNC ATTTATACCT GGATANGINC CTTCCCTGT AATTTTINCT GAAAGGCTCC AATTTCC

SEQ ID NO:1354: (Length of Sequence = 407 Nucleotides)

GTGAAGTTAA GCAGCAAGGG CTGAGAACCG CTGCTCCAGA GAGGCCAGGA GGTCGTGTC GAGGCTGGGG CCCCAGCCCC  
CAGGCACCTC TCTGTGTCAG TTTCCCTGGA GAAGTCATGA GTTGAAGAG TAGGCAGAGG CCAGGTGTCA TCACTGAGTC  
ACTCATCAAT GGCCAATGAG AGTNCAAAGG GTAGCTCTGA GCACAGGATG TTAGCAAGA CTCTGGGTT CAGCTCCAG  
TCCACCANT GCCAAGTGGG GGATCCTTAG CAAGGTACTT ACCTTTTNN TGCTCTGTT TCTACGGCTG CAAAATGGGC  
ACAATAATGT CAGATTCATG AGGATAATG AGGACTAAAA TTAGGNTAAT TNCCTATAAG CTGCTCTAA ACGTATTAC  
TTATAAA

SEQ ID NO:1355: (Length of Sequence = 355 Nucleotides)

ATTACTATTT GCCTCTATAG GAGGTTTCAT TAGGCATCTN CTTCATTATG AGTGCATAT AATCAAACAC TTATCAGTAC  
AAGGCAGAGA GACCGGACT AGCTGCTAC ACATCTCAA TGAGCTTATG GAATTTGAA GGAACATGG ACTGAAATC  
TCTGGTGGC AGGTACTCTC ATGTGTGTC CTATCTGATG CTCTCAACAA CCTCTAGGG TAGATATTGT GACCTCATC

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TTGCAGAAGC CTGGCTCAA GTATATGCTC AGAATCACAG AGCTGGAAGA TAAACTTGGG TCTCTCTAGT GCCAGAGNCC  
ATGNOCTCTG ATCTCTCAAG GGCAGAGGTA TTACC

SEQ ID NO:1356: (Length of Sequence = 406 Nucleotides)

TTTTTTTATG TTATTTCACT CTCTCTGTGA AATTTATCTG ATAGGATTCT GCAGAGAACA AAATTCAACA GGGCCCTGTG  
GAGCAAGGAG CCGCTTTTCC CTATCTCCTT CCTCTAAGAG CTACACCCAG ACCAGCTGGT TATCAGOGGA GGGCCCGCTG  
CTOCTCATGA GAACGCTGGT GGAAGACGAA GGTGATGGCA GTGGAGGCAG CATCCAGGC AGCCTGGAGT ACCTCATCCC  
GGAGCCCCCA CTATCAGTG CAGTGGTTC ACCCTGCCAG GGTCINAAGT GCAGTCAGAA CCATCAGGGG GINGCCGGAT  
CTGACGGCTG TTNACACAAC GTGGCAGTG CAAACCTAGG GACAGAAGGC ACANCTNAAG TCACTNCAGA TCCCATCTTC  
CTACTG

SEQ ID NO:1357: (Length of Sequence = 231 Nucleotides)

TTTCACAAAG AATTTATGAT TGCTTCACCA GGTCACTAGT GAGCTAAAGT CAAGGAATGA CTACAATCTT GTAGCATTTT  
AAAGTGATTA GAATTTGAGA AACTTTTACT ACATTATGTG TTAATATCAT AAGAACACTC CTTTGGGGGC ATTTGAATAA  
TAAAAAGGNC TACATTCTTT GCACCANGTG NTCATTTTCA CCCACATTCC AGTATTTTNC TCTAACTTGG G

SEQ ID NO:1358: (Length of Sequence = 302 Nucleotides)

CACAACTAAT TTGTAAGCCC CTGAGOGCA GGAACCTGGT TTTTAAAGAA TGATGTATTC TTCACAGTGC TTTCCCTTTC  
TGTTACCCAG GGAGCACATG GCAATATAAG GGCTCCTGGG ATTGANTCTT AAGTACAGAG AAAACCTAAG AATNCTTTTA  
GATAGACAGA TAAGAGACCA CNAGAGAAGA GCAGATTCTA AGGTATNIGT GAGAAACGTT ATGTAATGAA AAGATAATTG  
ATGACACACA CTCCAGAGN GTGCTGGCGA GATTTGATTC AAAAGCACAC GGCTAGGGCA CT

SEQ ID NO:1359: (Length of Sequence = 356 Nucleotides)

TAATGATGAG CCTCTGGGTG CAGGGAGAGG ATAGGACTTG ATGCTTTCCA GGGGAAATAT TTAATTTTC AGTACTAAGT  
TAAGTCGTGA TCATTTTACT TTTTATATAG TTCTTATTT TATGTTGTAT GAGATGAAA GCTTGCACAT AAAAGATGAT  
AAGAAATTAG AATTCATGCT TTCTGTTGTA CCAAGAAGAA CCTTAGTGAT CTCTAAAAGA ATGTTTGTGA AAATATGGAT  
TCNCTTTCC TTCTAGTACT CCGCTAGCAT GACANIGAGC GTGTGATCCA TTACCAAGTC TCCTCATGAA AACCACAGTG  
AGTCAGCCCT TCACAGAACT ACTACGGGAG GAAATT

SEQ ID NO:1360: (Length of Sequence = 366 Nucleotides)

AAAATTTAAT TCACTGACC CATCCACCG GGAATGCCA CTAGGAAGGT GTAGCCTGCA GTTTTACCTA ATAAGCACAA  
CTGGAGGGGA ATAGAAACAC AGAATTGTGA GGAATCGCA AGGCATGCTG CTCAGAGCAT GCGTAGCCCT GCACTGAAAG  
CTATGAGATA CTGGTTCTGA GGCATGGCTG TGCTTGCTGG TGGGAGGCGG CATCCTCCTT TGGCCTCCTT GGGACACCTC  
CTGTGCTCCC TGCACTGCAC TCCAGTGGC TGGGGTGTCT ACACAACING CTGCAGCTTC ACTAAAGAAC AGGTGGCACT  
NCAGCTTCTC CGGGTCTGCT TGAGCACAGG GNGCCGCCAN CCTTGA

SEQ ID NO:1361: (Length of Sequence = 347 Nucleotides)

CCTCCTACTG TCTGTCTGT GGGACAGTGG CCTCCCTCTC ATCTCCAGTG ACTCAGCTTA CACAAGGGAG GACCAACAGG  
NCTAGTTTT TCCAGTGAT GGAGTTCCAA GCTTTTTTTT TTGATTGTGT TTGTTTCGCA AAATAAAAC AATACACATT  
CCAAGAGAAA TGAATGCTTC TTTTACACG TCTCTCTCTC TCATTTACAT ATCTACACAC GNGCCTGAG TCGCTGCTCT  
TGACACGGCC CNGTGTGGAC GGGTCAGGCC CGAGGCCCTT CGGGAGCAGA CCTGTAGCTC TCTGGGGGAT CAGGGCTTCC  
ATTAGGGAGA AAGTATTAGC AGTTTCT

SEQ ID NO:1362: (Length of Sequence = 358 Nucleotides)

CCATTCATTTC ATTCAATTCAA CAATATTCAT TCAACAAATG AAGCAAAGGA GCACACAGCC AAGTGATGGA GCAAAATCAC  
AAATTAAAAG GTAATTCAGG CCAGGTGAGG TGGCTCATGC CTGTAATCCC AGCACTTTGG GAGGCCGAGG CAGGTGGACC  
AGCTGAGGCC AGGAGTTTNA GACCAGCCTG GCCAACATGA TGCAACCCCG TWINTACTGA AAATACAAAA ACAAAACAAC  
AACATAAAAA AATTAGCCAG GTATNGTTTG CAGGCGNCTG TAATTNCAGC TTAGTCAGGA GGCTTTGGCA NGGGCTTCAG  
TTAGCCAAGA TCGGACCCCT NCACTTTTCAG CCTGGGTA

SEQ ID NO:1363: (Length of Sequence = 312 Nucleotides)

TATTTAAATA ACGTGCAATT TCATAATCA GCACATTTAC TAGATAGGTA GGATACTTTT NATCCATTG TGIGTTAAAA  
AATTAGCGCA TGTTCCTCTT TATGCCCACT TGTATTAGCA GAATAGTGTT TTCGGATTCC CTGAATGENT CTGTATTGAG  
TCTGTATAGA CCCCAGAGGA AAAGGAGGAA TTCGCCGTGC CCGAGAATAG CTCCGTCCAG CAGTTTANGG NAGAAATCTC  
TAAACGTTTT AAATCACATA CTGACCAACT TGIGTTGATA TTTGCTGGAA AAATTTTGAA AGNTCAAGAT AC

SEQ ID NO:1364: (Length of Sequence = 345 Nucleotides)

CTGACAGATT TACAGATGCT GACCTATTGA AAAATACCAC AGCCAGAATG GGCTAAACAG GTATATAGTT AATACAACCA  
CCACCATCCT TACTTTTAA CATAGCTCTT AGTAGGAATT TCATAAAANT GGACATCACA GCTAAAATGC ATTATTAAIT  
CTCCTATCTG CTGACAATAA AAAAGCAGCA AACTCAATGA TTTCTATTTA AATGCACTAG ATGGGAATAT CATGTTCTAG  
GGGTGTTTGC CTTCAAACCA AACCCACAGC AACACACACA AGCAATTCG GTATCCACCA TTTTAAATTC ACAATCTGAG  
NCTAAATGAA TGGCTATTTA TATTT

SEQ ID NO:1365: (Length of Sequence = 255 Nucleotides)

CTCCAGAAAG CCATTGATCT GGTGACGAAA GCCACAGAGG AGGACAAAGC CAAGANCTAC GAGGAGGCGC TGGGCTGTGA  
CCAGCATGCG GTGGAGTACT TCCTCCACGC TATCAAGTAT GAGGCCACCA GCGACAAGGC CAAGGAGAGC ATTGAGCCA  
AGTGGGTGCA GTACCTAGAC CGGGCCGAGA AGCTGAAGGA TTATTTACGA AGCAAAGAGA AACACGGCAA GAAGCCAGTC  
AAAGAGAACC AGAGT

SEQ ID NO:1366: (Length of Sequence = 322 Nucleotides)

AAAAAAAAA TTCCAAGAA ACAGAGTAAT TTTCTCTCTT GCCTCAGCCC TAAGTCATCT CCCAGACAAA AAAGCAATCA  
TCAITGTCAA ATTTAAAGG GAAAAGGAAA GACTTTTATT TGANTGAAA GATTTTTTTC AGTGTGATAG AGAGGGAAGA  
CTGAAATAAA CAGAATTAC AACCTTCGCA CCTTTCACC TTCTCTTCT AGCAGTATGG CAAACTAAAT AACTTGCCT  
GAAACGGGT TAAAAAGCTG TATACTTTTT TAAAAATAT ATTTNGNTTA TGTCATTGAT CTGCACAGTT TTGAATACAA  
AA

SEQ ID NO:1367: (Length of Sequence = 349 Nucleotides)

GAAACAAGG TCAACATCAC TCATCATTAG AGAAATGCAA ATCAAACCA TAGTGAAATA CCATCTCACA CCAGTCAGAA  
TGGCTGCTAC TAGAAATAAC ATGCTGGTGA GGCTGCAGAG AGAAAGGAAT GTTTATACAC TGTTAATGGG AGTNTAATTA  
GTTCAACCAT TGTGGTAGAC AGTGTGAAAA TTCTCAAAG ACCTAGAGAC AGAAATACCA TTTGACTGAG CAATCTCATT  
ACTGGGTATA TAGCCAAAGG AATATAAAT: GTCCTACTGT AGAGAAAACA TGCATGCATG TTTGTTTGCA GCACTATTTC  
ACAAGAGCAA ACACATGGGA TCAACTTAA

SEQ ID NO:1368: (Length of Sequence = 379 Nucleotides)

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CTGGGACAGA GACCTTTGCA TTGCTCCATG TGTGGCTTC AGCTGGGACA GAGACCTTIG CATIGCTCCA TGIGTGGGG  
 CAGGTCTTCC ATTTCAATCT CCTCTGCCCT AATTATTAG CCATACTTGT GCTATTTATT ACTTTTAAAC CCTAATCCTT  
 TTTCCGTAAT TGTGTTACAT TTTCAGAGT GCCAGCATT TACAATGTT CTTTTATGTC TCACAGAGGT CATCATTAG  
 TTAGACCTTT GCCTTCATGT GTCTCCCGAG AGATGGTTTA TAAAATTTGC ATNCTCTGG CACAGGTGGT GTGGCTTAGG  
 GATTAGGACA CAGCCTGCCT GAGTTCACAC CTCATCTCTC CCACCTAACA CTGATAATT

SEQ ID NO:1369: (Length of Sequence = 319 Nucleotides)

ATTTCTGGTC TAAGTTTTAT TATTCCCTT CTTCGCTTG TTTTAGGCTG ATATTGCACT TCTTACTCCA GTTTTCTAAG  
 GGGGAAGCTT CGACTATTGA TTCAAATCT TTTTNCCTTN CTAATCTATG CATTCATGT TATAAGTTTC TGTGAAGCAG  
 TGATTTCAAT GCATCCACA TTTTGATAGG TTATATTTCC ATTTAGTTAC AAATAATTTA AATTTCCCTT GAGATTTCTG  
 CTTTGACTTA TGIGTTATTT GGAAGTGAT TTTTATTCTC CAAATATTTA GAGATTTGCA GCTGTCTTTA TGTIATTA

SEQ ID NO:1370: (Length of Sequence = 343 Nucleotides)

GGAAACATA AATNTGACA AGTAGTTCAA GACTGTTGGG ATAACTTAG CTAGAGTGCA GGTCACTAAT ACCCATCTTT  
 ATAAGGAAGC TGAAAGGGA AGTATGAGGA CAGGAGAAC AATGACTTIN TCTCTCAAGC TTGACTTAAA CCACCAGGAA  
 AGTTCTTAAA GCCAAGCCT TTCTCAGACT CTCACCAAC CATAAGAGTC AGAAAAATGG TCGTTTTCAA AGGAGTAGAA  
 AATTCGTAC AAAGTAAACA ACAGCTGAAG CAGGAAAGN ACATACATTT NNTCACTTAG TGGCAGCAG GCAAAACAGA  
 ACATAGGGCC AGCTTGCTTA TTT

SEQ ID NO:1371: (Length of Sequence = 295 Nucleotides)

ATTTCTNCCT GGGCGGCGAT GATCTGAGCA ATGCCCCCCA CAACTTGGT TTTCACTACA ACATGCTGCT CATCAGCTTT  
 GCCAAAAGCT GCCTTCTGGG CTGCAOGGAC AAGATTGINT GAGGCTCTTT TCACAGCAAT TCCTGCGGCC TGTAGCGGCC  
 TCATGGCCTC TNAATCCTGG TCGGCCTTCA CCTTGCAGGC CACCAGCAGC TGAGCGGTGG AAGCGGCGAC CTGCTTGGCA  
 GATGAGATGA GCTTCTCCTC GCTGGCGTGT CCTGAACGG AGGCATTGGC CGCCT

SEQ ID NO:1372: (Length of Sequence = 340 Nucleotides)

TTTGCTTTCA GATAATGTTT CTGTAATCTT TATAAATGCT ATCTGTGGTA TCTCTGTAT AATTNACAAT GTTTGCATGT  
 AAAAAACAA ACCCATAGAC CTTAAAAAA AGAAAAAAG AATATACAC TATACATAGG CACAGCTTAT GCCAGAGCA  
 TAGCAGGTGC ATAAACACT GTTGCTATAA ATGCAAGAA AAGGTCAATT AACCACAATC ACATTTTTTT NCATAAGN  
 GTCGAAATC TATACAATAT ATACATCTAT GTTTCAATGT GGAATAATA TTCTTTTAAA TTTCAAGGCG TGTIATACCC  
 CTGCAGGCCT GCATAAATGG

SEQ ID NO:1373: (Length of Sequence = 315 Nucleotides)

AATCTGGGG GTGATTTAGA ACTAGAGGC ATTCTCAAAA TGGACCAAGC TAAATGGTAG CCTTTATTIN CTGTAATGAT  
 TCACCATGGG AAAATTAGTA ATTCTTTAAA CTCTTACTT AATCTTATAT GTATCCAAA TTNCTTAAA AGAAATTAAC  
 CTAGAGGTTT TACAGAACTC CATTTTTTTT TTATTNCCA GAAAGGAAA ATTTATCTGT NCTGTNATTT TGTAAAAAT  
 CCTATTCCAG CTACTACTAT GGAAAAAGGA AAAGAAGGAA GGAGGAAAGG AAGGGAGAGA GGAAAGGAAG GGACG

SEQ ID NO:1374: (Length of Sequence = 327 Nucleotides)

GAGCCAGTGG TGGCCCCAA CAGCCCAATC TGGTACTCAG TCCAGCCTAT CAGCAGAGAG CAGATGGGAC AAATGCTGAC  
 GCGGATCCTG GTGATAAGAG AAATTCAGGA GGCCATCGCA GTGGCCAATG CAAGCACTAT GCACTGAGAT GCCTTGGCCA

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AAAGGAAAAT ATAAAAGAAA ATAAATCTC ACATTGGTGC TTAGCAGGAG AATTTTAAA GACTTACAAA TCAACAAGCT  
 GTTCAAATAA ATAATGAATG CTGCAGCTGG CTCTTACATG GGGCTTTNAG TGTCCCANTA GTAGCAGATG TOCCAGTTCT  
 ATAAAAT

SEQ ID NO:1375: (Length of Sequence = 338 Nucleotides)

TGCATGGAAA CTTAATCTAT TCAGGTCCCA ACTTTCAGGC TTCTCTGCTC TGACAAGTAC TAGAGGCCAA TATGATAGAC  
 TAGTCTGAGT TGGATGCAAG TTAGCCATTT CCAGGAATGA TACCAGGATA AGTATAATGG TCGTGAATAT AACCGGATTT  
 TAAGGGAGAA TGATTACACC TGGAAACAAA CTGTCAATAC ACAAGTAACT AGTTGTAAA GATTICTAAT TTTGACCAA  
 GATTTTACT TTCTGGTAT AGAAATGGAA ATAAACATTN ACACTTTAGG TTTTGAAAGC AACCACCTCC TAACACGGTT  
 CTGAGTTGGG GGCCAACA

SEQ ID NO:1376: (Length of Sequence = 307 Nucleotides)

CAAGCCTCCC TCAAAAAAAT CCCCAGAGTA ATGAAAATAC AAAGTCTGCT TGTCAAAT TATGGTGGCA ATAAAAAGG  
 AAAGGGAGGA AGTGATGGAG TAAAGTTCAG ATTAATAATA AACGGAAAGT CACAACAGTC GAAAGGTGGA AAAAAACCGC  
 AAATGCCCAT GANCTGATGA ATGGATAAAC AAAATTGGT GGTGTGTAT ATATGTGTAC AAATTCCTT TTTATGATGA  
 AATAGTATTT CATGTGTGT GCACATGTN CACACACANT TTAAATAGTA TTTGTCATA AAAAAAG

SEQ ID NO:1377: (Length of Sequence = 353 Nucleotides)

TGGAATACAC TTGTGAATAC AGTGTGTAGG ATACATTAAC AGTTTCTGA GTGGGCTGCT CTTTTTCCT CAATACTGTA  
 TATATTTNN TTAAGCTCTT CTTTAAAGA TAAATATTT TCATACTCT CTTAAATCCT CAAGGATTAA CTCTGAGTCA  
 CCATTTGIGG TATTTTAAAT CCTTTTAAAT AAATCTCTGT ATTGCACT GCATCAAAAC AGTAAACAT TTCACAGGT  
 AGGATCTGAT GACCATTTTA TAATCAACAT TTTTAGGTAC CACAAGAG ACTTTATGAG CATCCACTGA AATTATGGG  
 ATTATGTCAT ATAAATATCC AAAAATCCAT TTT

SEQ ID NO:1378: (Length of Sequence = 315 Nucleotides)

GATTGGCAA ATATTGGGT GAGATTGAA AATAAATAC ACCACTG TG CACAAGTTAA TGTGAATCAA GCATCTGTTT  
 ATTTCAATCA GTTATGCCT TTTTCTTT TTTGTGAGG TGCAGTTGGG GTCACAGACT CTCAATTTGA CAAGACCTT  
 TAAAGCAGG AGTAGAAAT AGGCTGGGT TTTACAATA TTACAGGAAC TGTCAATAA AACTTCAAGT GGATCAGTTT  
 ATTTCTGATT TAACTTGGG ATAACAGTG TTCAATATTT TCCAAAAGAT TCTCCCATTA TAGAAGTCCC AAAAG

SEQ ID NO:1379: (Length of Sequence = 352 Nucleotides)

ACCGCAAAAT TTAGCTGTTT ATTAGGTGC AAGTCTCTCC TTCTCTCCT GCTTCTCTT TCTNCTTTT CTCCCACAA  
 ATCCTCTCAA AACACATACA AAAAGAGAAA ACTAGAAGCA AGATTGGGTC AAACATGAAG AACACAGAAA GCNTATTAAA  
 TAGCTAGCTT TAAAGGGCTC TTTTTCAGTT TGAACAAAAG TAAAACGTT TCAAAAGCAA AAACAGAAA CAGAGCTTCC  
 ACCCAGATTG TGCAACTTAA TGAGAGGAGG TTAGTGTGA TAAACCCATT GTGAAATCTA TTATAAAGTG ACAGGTTTTT  
 CAAGCAAGGA AATCCAATCC AGTTGGGGT TG

SEQ ID NO:1380: (Length of Sequence = 261 Nucleotides)

AAAATTTAG TCAAGACGTG AATAGATATT NCTGCAAAGA AAACATACAA GTGGTCAATA GGTATATPAA AGGTATTCAA  
 TATCACTAAT CATCAGGGAA ATGCAAATCA AAACCACAAT GAGTTATCIN CTCATACCTT TNATGATGGC TAATATTAA  
 CGAGAGATAA CAAGTGTTTA TGGGGGTGTG GNGAAAAGAG AATGTTGAA CACTCTTGGT TGAAATATAA GTTGGTAGAA  
 CCATTATGCA AAACAGTATG A

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SEQ ID NO:1381: (Length of Sequence = 273 Nucleotides)

GCCACTACAC TCCAGCCTGG GACACAGAGC AAGACTCCCT CCCAAAAAA AAAAAAAAAA TTATTAGAAA GAGGAAGAGA  
GAGATGNCAA AGCCTTTTAC AGTTGGGTGT TGGNGTTAG AGACCCAGTA CCCAGCCTG ACATACCTAC AGAAGCAGTG  
AATTTACTTA TTTACTGTA TGAATAAAT AGATGCTGCC AGCCGTGCAC AGCAGAACT ACTATTGANT CATATGGTTT  
TAGCCTTCAC CTTTAAATAT GTCTAATTAT ATG

SEQ ID NO:1382: (Length of Sequence = 296 Nucleotides)

CTCCACAGCT GCCACATAGA ACRAGCAAAT CTGACATCAC AGCTCTTTTA AAAATCTCCC AGAATTCTAC ACTGGAATAA  
AGATCACCCA GTAAACTCAG CTATGTTGAT TCGTAGGAAT TTCTCCTTGG AGTTAATAAT AATCATTAGA AAAAAATAC  
AGGAAGAAAT AACTTCCTCC TATCTTATT GTGATAAAT GTAACAATAG CAGACATTCG TATATAGATC CTATAAGCGA  
CAAGAGGGAA AATAGGATTT GCAANITAAG CATCTGGAAT AAATATTTTA GGAAAA

SEQ ID NO:1383: (Length of Sequence = 293 Nucleotides)

CCAAGGACCG GCGCGTGGG CTGCTCTGGG ACGCTTCGT GCGGGCTGC CGCGCGACT GGTACGGAGG CAATNACCGC  
TCGGTCACTCT GCTCTGACCA CTTTNCCTCA GCGTGTCTT ACCTCTCTTC GGTATCCAG AAGAACCTGC GCTTCTCCCA  
GCGNCTGAGG CTGGTGGCAG GCGCGTGGC CACCTGCAN CNGGTGCCG CCGCGCACCC TAAGAGGGGA GAGGAGGGAG  
ACCAAGCAGG NCGCTGGAC ACGAGAGGAG AGCTTCAGGC AGCCAGGNAT TCT

SEQ ID NO:1384: (Length of Sequence = 378 Nucleotides)

GGTGGTTTGG ACATGTAGAA AATAAGATGG AAGGCTGAAC TAGGGCAGTG GTGTTGGCAA ATAATCAGAT TTCAGGAATA  
TCACAAAGTG AGNGCCCGAG GATTCATGAC CATTTNATG TAGGAATAAG GGAGGAGCCT AGGATGACTC CCCCAGTTT  
CTGGCTCGAG TAACTGGGAT ATCAACAAGT CATTIAGCAA AATAGAGAAA ATAGGAGAAG CAGCAATTTG AGATAGAGAT  
AGAGGCAATA TAAAGNNTA TATATTGACC ATGGTAAATC ACCTAAATTC AGAAAGTTGT AGAAACTTG GGTCTGGANC  
TCAGGAAAGA CACTGGATAT GTAGATTGG AAAGTATCA ATCTCAAAGT GATTGCTT

SEQ ID NO:1385: (Length of Sequence = 204 Nucleotides)

TCATTCITGG GTGTTTCTCG CAGAGGAGGG NTTTGGCAGG GTCATAGGAC AATAGTGGAG GGAAGGTCAG CAGACAAACA  
AGTGAACAAA GGTCTCTGGT TTTCTTAGGC AGAGGACCCC GAGGCTTCC GCAGTGTGTTG TTTCCCTGGG TACTTNAGAT  
TAGGGAGTGG TGATGACTCT TAAGGAGCAT GCTGCCTTCA AGCA

SEQ ID NO:1386: (Length of Sequence = 238 Nucleotides)

CCCCATCATG GGCAGCCAGA GCTCCAAGGC TCCCGGGGC GACGTGACCG CCGAGGAGGC AGCAGGCGCT TCCCCGCGA  
AGGCCAACGG CATGGAGAAT GGCCAAGTGA AAAGCAATGG AGACTTATCC CCCAAGGGTG AAGGGGAGTC GCCCCCTGTN  
AAGGGAACAN ATGAGGCAGC CGGGGCCACT GCGATGCCA TOGAGCCAGC ACCCCCTAGC CAGGGTGCTG AGGCCAAG

SEQ ID NO:1387: (Length of Sequence = 295 Nucleotides)

TTTTTTTTTT TTTTTTTTTT TTTTANTTAG GCAAGAAGAG GTGTGAGTAA TTGAGGAAAA ACTGACAGAT GCTTTTCTTA  
ATACCAAAT TGAGCTTACA ATTAGGAAT GAGTATGTGT AACAGGNTAC AGGTGACAGT GAAGATAGAA GAACCACNT  
GACCACAGAC TCAATGTGCT CTGTAACATC GCACAGTTTA CCCAGCATGA CTTTCTTAG GAGGCCCCCT CCTCACGCTA  
GAGTAAAGT CCACTTAAG TGAAGCTTAC CAGTAACT AGTAAGAA TTTT

SEQ ID NO:1388: (Length of Sequence = 201 Nucleotides)

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GCTAGTNATC TCTCAGACAC TTGGTCGGTA GAAAAGATCC CGCACCATCC TCCAGGNTCC AATGGCCTTG GAGAGAGGGC  
 TGCAGGGCCC ACGGNCATTG CTGACTCTTT AGAACGTGCT GACATGGAGC CAGACCACTC GGCCCTGAGT GCGGCGAGGA  
 CCCINTTTINT GGATGTGGAG GAGCGCGGGC CGGAGCATTG T

SEQ ID NO:1389: (Length of Sequence = 399 Nucleotides)

GGTGCCCTGT TATCTGGTAA AAGAGCCACT TATGACCTCA GGTGCTACTT AACCTGGGGG GCAATTGTTT CITAGGCCTA  
 GCAGATGTTT GGGATGACAC TAAAACTCA GTGGTGAGAT GATTCCTTA GCAAGATTGC TGAAGTTAGG TTTAGACGTG  
 GGAGGGTGGG TATGTGAGCA ATGGTGCCAA TAGCGGCTCT TTATTTGCCT TGTCCTCATT ACTGCCATCA GGAAGGTGCT  
 ACTGGCCTCG AGCCAGGGTG TTCATAATCT GGCTTGGGT TAACCAGACA AATAGAACTT CTTTCTCTAG ACTGTTGGCT  
 TTNTGGAGGT TGGCAGCCTC TATCAGAGN TAAATTTCC CAAATCCATT TACCCAGTAT ATTCACTACA ATTTTTC

SEQ ID NO:1390: (Length of Sequence = 381 Nucleotides)

GGATTGAGGT GAAGATACAA CAAAGAAAGG AAATTGAACG GAATTATTAA GAGGGTCAAG TTTGATAGGC AGATAAGACT  
 AGGTATCAGC AAGACATTTT AAACAAAAGG AACATTATGT AATTTTTTAA AAAAATACAT GAAAATAATA TTTAANCAAG  
 GAAGGAATAT GATAAAAGAN GGATAGTTAG TAAATTTGG ATAACATAAA GATTATTGAA TCTCCAGTCG TCAAATTTAT  
 CCTAAACTAC TGGGGAGAGG TCTCATGTCA GATTTTGATT ATCGAGAAAG AGGGGTCAAG AGTATAAGNG AAATTCCTTT  
 TTGTTTTGAA CTTCAGTGT CCCNCTATTG TGGGCAAATA TCAAATTCAG ACCAAATATA C

SEQ ID NO:1391: (Length of Sequence = 327 Nucleotides)

GAAGAAGTCC TTCTTAAGCA AGGCTTACAG ACTCCAGGG AGAACAAAAT CTCTTTATCT CTCTGGGGTT TTAGGACCT  
 CATCAAGTCA TAGAATTGAA ATAGAGAACA TCAATTGINC AACTTTTTAA TTTTAATAGT TTTTGTAGTA CATAAAATC  
 ATGTTATGAA TTTTGTGTA GTTTTAATTA TAACTTTTT AGCACTTTTA CCATATTCTT AAAAATTAAA AATTATGAGT  
 NCTGAGAAAG CAGTGAAATC ACATATAGGT ATTGATTAA CTTTATGTG ATCTTTTACC TCAAGCTAAT GTTCTTAA  
 ATCAAGG

SEQ ID NO:1392: (Length of Sequence = 223 Nucleotides)

TTTTTTAATA TTTAAACAA TTTTATTCAT GAAAATATGC TGTACAATGC ACTCTACACA GCCTCGACAC GGCACACAG  
 CACACGCACA CTCTGACGGC ACGGCCACGG TACACTGCCT ACGATACGGC CCGGGGACGC CGCGCCACC GCCCGTCCG  
 GCGGACACT TATAAATATG GGAGAAGGGC CAGAACTNGC GCGGAGAAAG GGGCGTCGGG GTT

SEQ ID NO:1393: (Length of Sequence = 296 Nucleotides)

GAAAGTTTAT TATTTCCAA TGINCTTTAC ATTINCAITT GGAAATATCA TTCTGACAG AAATAGNTAC ATTATACCTT  
 OGAAAGCAGA AAGATCTTAA TTAATTAAAA CAGTTTACAT TTACCTTAGC ATTAGGTCTG GCTGGCTAAT TTCAAAGGAT  
 TAAAAATTGC ACCNATTGG GCCAACTGGG GTCTGAATA ATTATCCNGG GTAAAAGTAT AATATTTCAT ACTTTATACA  
 TTTTGCTTCA TCACACATTT ACTTTCCACA CAGTNTCAA CTTCACATTT AAAAAG

SEQ ID NO:1394: (Length of Sequence = 281 Nucleotides)

ATCTTTGCAT CCTGGGACG ATTTCCAGTT GAGCATGGTG AATAATCTTT TTGATAGGCT GTTGGATTG AGTTGCTAGT  
 ATTTTNTGG GGCATTTGC ATCTGNTTC ATCAGGGATA GTGGCCATCA GCTTCTTTT CGTGIGTGTG TGCCCTGTC  
 TTGTTCTGGT ATTCGGGTAA TATTGGCCTT GTGAATGAA TTTGAAGAA TTGTTTCTT TTTGATTTT TGGGATAT  
 TTAAGAAGAA TTAGTATTAG TTCINCTTTA AATGTTTGGT A



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SEQ ID NO:1395: (Length of Sequence = 323 Nucleotides)

CTTTTTTTAA GATTTCAAAC TGGGTACAC ACTGGAAAAG GCTGGGTAA GGGCOGAAAT TTAATAAATC TGTAAGATA  
ACTAAAGGCT ACAGAGATTT CATATATTTT TTTTAACTTT TAGAAATCAG AGTGCTTATA AAATGGCTGG CTCATGGCTC  
TGTCACCCAG CATCTCTGAC GCCGCCTCCT AGCCTTCGTT GGTGAGATAA CCNGGNATAG TGATTCCATG CGTAAACAAC  
AAGAATACTA AACCAATAAA ACTAGCTTAT CATGCAAATA TTANGGCATC TAGAAAGTCA GTTAAATATA TATTGTCATA  
GAG

SEQ ID NO:1396: (Length of Sequence = 384 Nucleotides)

TGCTCCCGG GTTCATGGA TTCNCOGCC TCAGTCTCTT GAGTAGCTGG GATTACAGGC ATGCACCACC ATGCTTAATT  
TTGTACTGA TGCCAGCACT TTCTTAGCAA CCCAGCTGG TGTCCTAGTA TGCCCCCTCC AGTCCACTGT CTCCTGGGCC  
AGTTCAGCGC TAGGACTTGC TTAAGAGTTT CAGTCTTGT AGCCTATACT GCCTTTNACG TTTATTTAGA GATCTAGAGC  
ACTTTAACC TCAGTGGCAA GGTGTGTTGG AACTTGAGTT CGGACCACTG GGATTGGCAA ATCCCCCTCT GGGCTAGGGT  
TGCTTTAAAT GCTCCCTTCA CGTGTGGCA ATCAGCTGAG TTTGGTCCAG TTTCTCTTC TGCT

SEQ ID NO:1397: (Length of Sequence = 370 Nucleotides)

TTGAGTTTNT TCAGTGGCAT CCCCTGCTCC CCTGAGCACA CACAGTGTTC TCTATTTATG ACTGTAGTGC CAAGCAGAAT  
TTCCATGTC TTGCTAGCTG CCCATTCTCA CCCCTCAGGG TCTCATACTT CTCCCTGGAA GCTCCCAAG CAGTCAATGT  
GACAGGGACC AAGTATGTAC AAGGCAACAT ATTGGGTTCA AGTGCAACT AAGGGAACCA GGGCCTGTTT TTCTAGTTTG  
GAAGTTTTTC TTATCTTAA GAAAAGAGAC AGACCAAAAC CAAGAAGATC AACAATAACT CTCTCTTTG TCATCAGGT  
GATGACATCA AGGTACTGAT ATTAACCAGA AGTTACAACA AGAAGGAATT

SEQ ID NO:1398: (Length of Sequence = 307 Nucleotides)

ATCAGCATTA GGTTTTCACC AAAGTGATAC AAGTCTGAAG GTCTTCATCA GCAGTCTCCC TCATAGTCAG CGCCATACCG  
AAGAGGCTG TCCCTCTCAT AGGCCTTCC AGCCACTTCT TCCCCACAGG CCTGATTCTN CTGTGGCTGG GAGTGTGGAC  
TGATTGTGTA TGATGTGAGA GATCCNNGG GGTGTGAGCT ACCGCACTG GCTGAACCTT CAAGGAGAAG TTTGTGCATC  
ANTTTTCAAA AAATTATGAT ATCAAAAGAT AGCTGTGCCC TACATTGGG AAAGATACAA AACTTG

SEQ ID NO:1399: (Length of Sequence = 380 Nucleotides)

CTGAATTATT GAGGATGAAT TGATAAGAC AGGTGTAATG AACTGAGGCC GGGCAATTAGA CTGAGCAGCT GACTGTCCCT  
CAGAAACCAT AACCTTGCTA CCCGATTGG GCAITGTGAC AACTGTGAC ATCAATGCAG ACTGCAAGTN AGTTGGCAAA  
GCTGCTGATG TGTTAGCTGA AGTGTGATG GGATTGGAAG TGACAAATAC AGTTATTGA TTTGGGGCA AGGGAGTGA  
AATGGAGGAA GAGCTAACAG GTCTTGACAT TACTGGAGGG ATGCTTGGTG CAAGTTAGA ACTGACCTCA CTCATTCGG  
GGATGCACAA GGGATGAACA CAGCTCATTT CCTGTNAGGT AAGTTTAGGG AATTAGAAGG

SEQ ID NO:1400: (Length of Sequence = 232 Nucleotides)

ATTATAGATA CACACCACCA CACCGGCTC CTCACATTA AGTGGGNTA TGACCATGAA CACTTCGTAT TAATAAATGT  
CTCAGCACAC CCAAGCCTGA AAATCTGATC TAAACCTCCT TAACTTGAAT TCCATCCACA ATCCACAAT TNCCTGGNAA  
AAATNTTCC CAGCTTCTCC TTCTCTAGC CCAAGAAACA GCTTAACAG CNGOGATTT CATTCCTACA CT

SEQ ID NO:1401: (Length of Sequence = 349 Nucleotides)

AAGCTAAATT TATAATGAAC AGATTGAAGA AAAATAAAGA GCTACAGAAA GTTCAGGATA TCAAGAAGT CAAGCAAAAC  
ATCCATCTTA TCCAGCCCC TCTTGCAGGC AAAGGGAAC AGTTGGAAGA GAAATGGTA CAGCAGTTAC AAGAGGATGT

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GGACATGGAA GATGCTCCTT AAAATCTCT GTAACCATTT CTTTATGTA CATTGAAAA TGCCCNITGG NTACTTGGAA  
 CTGCTAAATT ATTTTATTTT TTACATAAGG TCACCTAAAT GTAAAGCGT TAAAGACAT CTTTNCINGC ATTGCCATCT  
 TAATATC AGATATTACG GGATGTTAG

SEQ ID NO:1402: (Length of Sequence = 338 Nucleotides)

GTAATGCTA TTTGATGTTA TTTTAAAGAA TTAACCTTA AAACITTAAT TCCTTAAAC AATCTCAAAC AGAAGAAGCA  
 AAAGCTTGIN CTGTCTCCA GGAAATAAGA TTCAGCACCA ATGAAAATAA ATTATAGAAA ATCAGAAGAT GGGTCAATAT  
 GAGTGGAAAA AACCTAACAT TTTAATTGTT TTINCTCTCA ATAATTGTTG TGAACCATCC AAAAAAGTAT GATACAAAAA  
 TAGCACTATA CTAAGAGCCA GATGACATGT CCTTAAAGCC TTAGCTCTGC AAATTATTGG TTGTGTAACA CTAGGGAACA  
 ACACCTAGNC TCTCCTAG

SEQ ID NO:1403: (Length of Sequence = 381 Nucleotides)

GGAGTCTCAC TTTGTTGCC AGGCTAGAGT GOGANGGCGT GATCTINGCT CACCACAACC TCCATCTCCT GGGTTCAAGC  
 GATTCTCCTG CCTCAGCCTC CTGAGCAGGT GGGGTACAG GTGCCCGCCA CCGCACCCAG CCAACTTTNT GTTCTCAGCA  
 GAGACGGGCG TTGCCCATGT TGGTCAGGCT GGTCTGAAAC TGACCTCAAG TGATTTGCC ACCTTGCCA CCCAAAGTGC  
 TGGGATTATA GCGGTGAGCA CTTCACCTG GCCTCTAAGC TTAATCATTT CTAGGCTTTT NATTTAAAGT GAGAAACATG  
 TGACTCTTC CTTCATTG GGACACTTTA AAAGGGGTTA TTAAATTGAC CCTAATTACA A

SEQ ID NO:1404: (Length of Sequence = 325 Nucleotides)

AGCTCATCAG CTATCATTTG TGTTAGTGTA TTINATGTAT GGCCCAAGAC AATTCINCTT TTTCCAGTGT GGCCAGGGA  
 AGCCAAAAGA TTGATACCC CTGACAGGAT TCCAGATTCT TTTTGTAAAT NCTCAGAGGC CCTCTGTGCA TACTCCGTAA  
 GGACTATCCA CATTCTTTAT TACTTTCAIT GGCAATAGGT ATAAATTTT ATTTGTTGGN TATTTTACTG NAATGTTACT  
 TGTTTTTGCT TATTTACTGA TTGGGTGGGA GGAAGTCAAA GGATGAATAA ATCTAACNT TTTTAAAAAG GAAAGGCTAA  
 AAATA

SEQ ID NO:1405: (Length of Sequence = 349 Nucleotides)

GGATTATGAC TGAACGTCCT CAGCATGTTG GCCTTACCC CTGGCGGTGG CTGGAACACA AAGATGCGGC CCGCAGGAG  
 CAGATTACACA GGCACCTTGG GGTGATCTC CATGGTTAGG AAGAGTGGGA AGCAGGCATG CGGCTGCAGG GAATGCAACT  
 TCTTCTCCAG CTGCATCAGC CACCTGGGG CCAGATGCAC ATTCTTCAGC ATCACCACC TGCCCGANTT TACAAGCGGT  
 GTTTTATTGC CTTATCTGCT TNGTTAAAGC CTTCTTCAGA GCGATTGCA ATTGAAGGGA TCTTCGGGGT TCTNCTCGGC  
 TNCAAAGGTC CTGACAATG TTCCCTTG

SEQ ID NO:1406: (Length of Sequence = 392 Nucleotides)

GGACTGCCCG TTGTTTATG AGACAGGGTC TCATTCTGTC ACTCAGGCTG GAGTGCACTG TCATGATCAT GGCTCACTGC  
 AGCCTGACC TCTCAGGCTC AAGTGATCCT TGCACTCAA CCTCAGAGT AGCTACGACT ACAGGTATGC CCCACTATGC  
 CTGGATAATT GTCCTTTT TTTTGTGGT AGAAACAGGG TCTCATCTG TTGCCAGGC TAGTCTCAA CTGCTGGACT  
 CAAGTGATCC TTCCAACCTG GCCTCCCAA GTGCTGGGAT TACAGATGTG AGTCACAATG NCCAGCATGG ATTGTCTTT  
 TCAGACCCAG ACCAAGAAG AGGACTTATT TGTCCCAAGA CCAATCTAGG NAAAGTATAA GCTGTGTGT CA

SEQ ID NO:1407: (Length of Sequence = 362 Nucleotides)

GTAAATTGGG NTTCAAGC AATAATTTCT CCACAACAAA AACCACACT TGAAGNGAGT TGAAAAGNGN TCAATAGTGG  
 AAACAGTCGC CTCAGTACTT TTNCITTCG GNTTTCATCT CTAGAAATTT NAAGTGTIN AGNCAGAGTC CACCTTTGT

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GCAAGGCGNG AACCNATGAA TGGACTCCTT GTGGAATTA TTGCATCTTC TTCCAAAGCA GGTTCATCAA GACTTTTACA  
GAGATTCAIT TTTNTTGA GAAGAGGTT AATAGGAGGA TAGAATTGG TTCCNAATCT AGTGTAAAA GTTCCAAGC  
AAATCAAAAA GTAAGATATT TTAGGGGGCA TACCCACATC TT

SEQ ID NO:1408: (Length of Sequence = 388 Nucleotides)

CCCCGAGCA CCACGAGCTG ACCTCGCTCT TCGAGTGTCC GGTCTGCTTT GACTATGTCC TGCCTCCTAT TCTGCAGTGC  
CAGGCCGGGC ACCTGGTGTG TAACCAATGC CGCCAGAAGT TGAGCTGCTG CCGGACGTGC AGGGGCGCCC TGACGCCAG  
CATCAGGAAC CTGGCTATGG AGAAGGTGGC CTGGCAGTC CTGTTTCCCT GTAAGTATGC CACCACGGGC TGTTCCCTGA  
CCCTGCACCA TACGGAGAAA CCAGAATATG AAGACATATG TNAATACCGT CCTACTCCT GNCATGTCC TGGTGCCTTC  
CTGCAAGTGG CAGGGGTCCC TGGGAAGCTT TGATTGTCCC ATTNATATGG AACGGCCAC AAAGAGCA

SEQ ID NO:1409: (Length of Sequence = 348 Nucleotides)

CAATGAATC CTTAAGCTTT GTTAAATATGA GAATGTCTTT ATCTCTCTT TATTTCCAAA GGACAGCTTT GCTGGTTAAA  
ATATCTTGG TTAAGTTTG TTTTATGATC TTAGCATATA TCATTCCACT CTCTCCTGGC CTGTAAAGCC TCTGCTGAAA  
GATCCACTTC TAGCCTTATT GAACTCCCT TCTATGTAT TCGNTTCINC CTCTGTCTGC TTCCAACATC CTGCTTTGT  
CCATAATTG TAACAGATTG AATATAATAT GAATTAGNCC TCTTAGACT GAATCTCAT GGAGCTTTT CACCTCTCT  
GTTTTGGGT ATTTATNTCT TTTACAG

SEQ ID NO:1410: (Length of Sequence = 370 Nucleotides)

GACTATTTAT TCTGCCTTAA ATCAATGGCA AATAAGTCAA GATGACATTT TGTAATGTA GACTATGGAT ACATCCTAA  
TAGATTGATG TAGTCATAAA AGGGGGTCAA GTAGATGTT TNCIGTTATG TAAGCAATAA TTTTCCCGTG TCTTATGAG  
TATGGCTAGC GATTTATTAT TACATGCTAG ATGGGTTCTT TGCATGTGGG TTCCATATAG GTGCAGAAAT TTCTCAGCC  
ACTGGAGGGA TTTCGACCAT ATTTGTCAAT TGGATGAGCT GTTATTAGAT TGAAATCTAC ACATCATTTT ATTAATAAT  
GTGCCCTAGA AAACGCAAAG CTNTTGACA ATGGOGATTA AAATTATGGG

SEQ ID NO:1411: (Length of Sequence = 385 Nucleotides)

GCTCAAATC CTGACCTCA GCGATCCAC CCACCTCAGC GTCCAAAGT GCTGGGATTA TAGGCGTGAG CACCGACCT  
GGCTATGAG TGGTCTTTA ATTAGGAAAT TTACATTTT ACATTAGTGA GATTGGTCTT TTGGGCTATT GTACTTTTTT  
TTTTTTTTT TTGAGATGGA GTCTGTCTCT CTCACCCAGG CTGGAGTGA GTAGTGCAAT CTGGCCAC TGCAACCTCT  
GCCTCCTGGG CTGAGTGTAT TCTCTGCTC AGCCTTCAA GTAGCTGGA CTACAGGCAT NTGCCACGC ACCTGGGGTA  
ATTTTNGTGG TTTTATGATG AGAATGGGG TTTTGCTAAT GTTGGCCAG GCTTGGGCTT GAAAT

SEQ ID NO:1412: (Length of Sequence = 337 Nucleotides)

CCATTCAGAT TCTCCTGGG CCTCCTGGC CCATTGCGA CAGATTGCT ACCTGCTCA GCTCAGGAC CCTTCCCTCT  
ATGATGAAGT GCATTGAAGA GAACAATGGT GTGGACAAGA GGATCAGCAG GTTATTTCTC CCCATCGGG CCACCGTGA  
CATGGAAGGA GCACCATCT TCCAGTGTG GCGCGGGT TTCAATGCGC AACTCAACAA CGTAGAGCTC AACCGAGGAC  
AGATTTTCAC CATCTAGT ACTGCCACAG CGTCCAGT TGGAGCAGCA GCGTNCAN CTNGAGGGGT CCTCANCATT  
GCCATTATCC TGGGAGG

SEQ ID NO:1413: (Length of Sequence = 357 Nucleotides)

ATAAGTGGAG TGAAGAAAT AATGCATAGT TCAAGCTAA ACAATACAAG CATCTCAGC TTTGGAGTCA AACTGAAAA  
TGAAGATCAC CTGGCCAAGG AGCTGGAAGA CCTGAACAAA TGGGGTCTA ACATCTTAA TGTGGCTGGA TATTCTACA

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ATAGACCCCT AACATGCATC ATGTATGCTA TATTCCAGGA AAGAGACCTC CTAAAGACAT TCAGAATCTC ATCTGACACA  
 TTTATAACCT ACATGATGAC TTTAGAAGGC CATTACCATT CTGACGTGGC ATATCACAAC AGCCTGCAGC CTGCTNATGT  
 AGNCCAGTCG ACCCATGTTT TCCTTTCTAC ANCAGCATTG GACGGTG

SEQ ID NO:1414: (Length of Sequence = 360 Nucleotides)

GTATACAGCG TGGTCCAGCC ACCCGACAGC GAGATGGGCA TTTAAGAAA CGCTCTCGGC CAGATCTCCG AACCAGAGCC  
 AGAAGGAATC TTTACAAAA ACAGGAGTCA GAACAAGCAG GGGTGTCTAA GGATGCAAAA TCTGTGGCCT CAGATGTTC  
 CCTCTACAAG GATGGGGAGG CTAAGACTGA CCCAGCAGGG CTGAGCAGTC CCCATCINCC AGGNACATCC TCTGCAGCAC  
 CCGACCTGGA GGGTCCCGAA TTTCCAGTTG AGTCINIGGC TTCTCGGATC CAGGCTNAGC CAGACAACTT GGGACGTGCC  
 TCTGCATCTT CAGACAGAAT TNCTAGCCTG CCTNAGGAAA

SEQ ID NO:1415: (Length of Sequence = 314 Nucleotides)

CTCAAACACA GCATTGAAG TCTTAATATT TTAGTACATA CTATACTATC TCINCTTACA ATTGTTTTTT GTTAAAGAAA  
 CCATGTTTTT NATTTAAAG AGTTTCCTTT ACTGTGGATT TTAGTGATG CATCTTTGTT GATGGGTTAA GATTGTCCN  
 TATATAGCAT TAGTNCCTTC AATGTGCTGT ATTCACTGCT GCCTCTGGGC TCCTAAACTG TGGAGGGCTG TTTGTCCCTA  
 TTTAAATGG GGACAGATTG TCCTGCTTTT TAATTTTCAA TGCTGACTT TTACCCNCTA ACTTTTCOGT AGAT

SEQ ID NO:1416: (Length of Sequence = 370 Nucleotides)

TTCCATTTTT GTCCTTCTC AGGATAATAG CAGACCGGTG ATCACAACCT TAGTTTTGAT GAGATAACCT CCTTATCT  
 TAAAAATGGT CTCATTATT TTCCAAGAGA AGACCACTAA AACTAAACA CCTGCCTTGA TCTCAGTGTC TTAGATGTTT  
 TCTGTCTCT CCTTATCT AGCAAACTCC CCAGGTGTCT ATTCTTATTC CCATTTTATA GATGGGCAAC TGGGTAAGAG  
 AGGTAAGCTT GGTGAGGTCA CTGAGATAGT GGGGAAAGGA GCTTGGTTCA CATCAGGTAT GCATTCCTCC AAGGTTCAC  
 TGGGCTATCT GAAGGAAGGG GTTCTGGAA GTGCAAATA TAGGGTACTG

SEQ ID NO:1417: (Length of Sequence = 365 Nucleotides)

GACTCCTTCG CCAAGGGAGC CATCAGCACC AGTTGTTCOA GAGCAGCCAC AACACCACTG ACCTCCCTTC TGCTTCGGC  
 CAATCCCGAC AGAGCCTCTT CCGAGTCTT GAGCTCCTGG ATAGCTGCCT CAATAAGCA GGACTCGGGA GTGTGCTTCT  
 CCTCTGCCAG CTGCTGCTCT AGTGCTACTT TCTCCTCCAG AACTACCCGG TGCAGCACT GCTCCTTAGA GGCCAGCAGC  
 AACTTGGAGT ACTGGCTGTG CTGTTCATCT CTTAGATGAA TGGGATGGTC TACATTCATC CATTTGGGAT TTTGGGCAAA  
 AGCCACCAAC AACCCCTTTT TTTCCCTCTT CAATCAAGCT GCAAT

SEQ ID NO:1418: (Length of Sequence = 354 Nucleotides)

CCAAATCCTT AAGTTTACAA AGCTGTGGA AAACCTTGTG TCTGATTTC AACAATCAG CTTTGTGTTGA AAGATGAGCC  
 AAGCTCACAG AACTAAATTT TTATGTCATG CCATAAGCTG GAGAGGAGCC ATTGGCTAC AGCTGCGGAA CTTTATTGAG  
 GAGCAAATGA AAGGCACATG GACGAGCAG CTGGTGCACT TCATGTTCTT CTGCTGTG AATTGAATAC TGTCCTGGTA  
 GCAGTTTGG GTCCGTGAG AGCTCAAGGC TGGTTTGTGT GGCTGACTAC GGATGAGCAC TGAAGTTGCC TCAAAGAATT  
 AAGGGGTGTC CACANCAGCC TCTTGGGTG TTTT

SEQ ID NO:1419: (Length of Sequence = 363 Nucleotides)

GTGGAACCG TGAATGAT GTGGCCACTG AAAGAAATTC AAGCAACTG AACAACCTC AGATTTCAT TTTCACTCG  
 TGTTCCTTA TGAACAATA CATTGCAGAA GGGGAAATAT CAGAAAGTGT ATTGATTTT AACCCAAAA TAGAATTTT  
 TGTAAGCTAG GAAAGCATCT AAAATTAACA AGAATACAA AATGCACCTT TGTTCATT TGCTCTATTT AGATCTTACA

AGAGATTATG TCITGAATCT ATCTGACTT CAGCAAAGA CAAAAGAAGC TTGAAAACAT CCTATTTCCA AATCGTTTAC  
AGGAAGTTAC CTAAGGAGNC TGACAGATTC AACGGCTGCT ACC

SEQ ID NO:1420: (Length of Sequence = 326 Nucleotides)

GAAGATTTTC TAGAAGCAA TAGTGCCACC ATCGTCATG AGGNTCTGTT TCTATAACGC TTGINTGTCT TINAGACTAC  
GTAGGTGGTA GCTTATGAGT AGTAATGINC TTTTGTAGT AAATGTCACC AAATAAGCAA ATAAGAGAAA CATGAAGGCC  
AAAACTGIN TTACTATTCA GGAGAAAATG GACGGTTTAG CAACAATACA ATGTAGACTT CAAAATATGA AAAATCAAGG  
AAATTNCTGT CATTGTCTTT AAGGGCCTCC AGAGAAGTAT TAATTGTCC TTTATGTGAA TTTAATGAGA TCATGTGAAA  
TGTATG.

SEQ ID NO:1421: (Length of Sequence = 294 Nucleotides)

ACCCAGTACA GGTACTCTCA CAGGAGGCAC TCAGCAGGGA TGTAGTGACA GCAGGTAAGA NTCCACCTCT NTCCTGCCT  
GCNCTGGGA TCCAGTATG GCCATGTAT CINCCTCAT TCTCAGGCT TCCTGGACTT TINTTGGAGG GAAAGAGGAA  
CAGAAAGAGG AGCAGGCAGG AGAAGCAAGA GCTCCCGGG GCTATGAAAG GTAACATACC TGGAGAGTTT NGGGAGACGG  
CGGCTGTINA GAGACAAGGG GAAGAGACAG AACAGGAGT ATTCTAAGAA GCAT

SEQ ID NO:1422: (Length of Sequence = 306 Nucleotides)

GAAGGGCATA TTTAATAGCT GCTGCAACA TATGGAATAG TGCTTTAATC AGTGGTGAAC AAGAAATGC CTGTTGTGGS  
TTATAAAAAC AAGGGACATT AATGINCTG TTCTGTACC ATAGTAATGT GNAAAAAAA ATAGTGGTIG NAATGGTGTT  
TAATTGTAC AGTTGTGTC AAGTAGAAT GGCNCAGATA TTTTGGTGA TAGGCTTTTG TCTTAGTAT AAAAATTAGG  
NCATTGGTA TGATAAAGC NGAGAATCTT AACAAATGGG CACTGGCCA GAAATINCA GGGTGC

SEQ ID NO:1423: (Length of Sequence = 274 Nucleotides)

TGTGTGTGTG TGTGTGTGTG TGTGTGAGAA ATGGGAAAG ACTGGTCTAG ATAATATTTT AGGTACCTTC CAACACTAAA  
ATGGTATGAT TCCAGCTTA CAAAAGCAA ACTATTTTAA TATCACCAC TCAATATAGT GIATCAAGCT CTGGTTTAT  
GTTAAGGGC TTAGGNACA GCACAACTA TTGTGGGCA ATTAATNCAA AAATCATGT TACCAAAAAG GCATGTTAG  
GNCTGCAGG ATAGTAAAA AGCAAGAACA GTCT

SEQ ID NO:1424: (Length of Sequence = 297 Nucleotides)

GGAGGATTAC TTGAGCCAG AAAAAAAG AAGCCTCAGG GGTTCGGTG AATGTTGTGT GGACTCCGT GAGAACAGAC  
GTTTGATGTG AACTGANTC AAGGCTGATA CAGCCAGAA CCAGNACAA GGTGAGAAAC TGCTCGTTTC CGGGAGGCAG  
GACTTCCIAA CGGGAGGCA CTGCAGTCA CTTCTGAAA CAGGTTTGA GGATAGGGAA ATTCTGNCA GCCCGGGGG  
ATCCACTAG TTTCTAGNA GCGCCGCCA CCGCGTGA AGGCTCAGC TTTTGT

SEQ ID NO:1425: (Length of Sequence = 276 Nucleotides)

ATTTTTTCAA GGATGGAAG GTCAGAGAA AATAAAATA AACATCTTC AATAGTCTT CCTGGTAAAA GCAGGCTTC  
TNTGGGCTGG GGAGTAAAG GTGTGGGCA AGGGAGTGG GGAGAGGCTG TAAACCTTC CCCAAACCC AGTTTTAGAT  
CCTTTGGTTT CCTTCTCCA GAAGATGNC AGAAGGCAT NGTGGGNAAC AGCAGGGNGG AAAATATGGT GATGACAAAC  
CCAGATGAT CAAGGGGCTG ATGCTCTGG GGGCA

SEQ ID NO:1426: (Length of Sequence = 295 Nucleotides)

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TAGTGGCATA TGGACCGGAA AGGGTTAATT TAAAGGGGGG GAACCTCAAA AGTTTTTTTA AAAAAGAAAC TTGTCTGCCA  
CAGTATGTTA CCAGTGTATA CCCTCTGCC AGTTAGCAAA CTTTGCCTT AAGCCTTTTT CCTCTAGGAT ACTCCCCATG  
TTTCGGTAAT CTGGGCATA CATTTTTTAA GNATGGACCT CTTTGCCTTG TTTTGTTC ATGCTGCTGT ATGTCCAAGT  
ATTGTTAATT TCATAATAAG ACAAGAGTTG CTTTCTTTTT TAATTCCTTT TCCCC

SEQ ID NO:1427: (Length of Sequence = 207 Nucleotides)

TCAGGAATGA TAGTATCTGG GATGAACCTT TCTTTAATAA GATTGAGGCC AGTNTTGGTG GGTGINTGCG GATGATTGTT  
ACTGNGCAG CCCCAGCATC ACCAACAGTT CTGGGAATTT CTCGGGCAG CTCTAGGGTG CCAGGTTTTAT GAAAGTTAT  
GGCCAACTG AGTGCCACAG CTGGATGTAA CCTTNCACCA CTCCTGG

SEQ ID NO:1428: (Length of Sequence = 223 Nucleotides)

TAACATCTC TCCAACCTCC CCAGTCCCA TCAGTGTGA GAAGGAATCT AGGCCAGCTC CTGGGAGATG CCAGTTAAGC  
CGCTTTGAAT CCTGTGCTT TCCAATTGNC CCTTATAGCA GTGATGTCA GGGATTGGGA CAACTTTCAA AACAAGTCCA  
TCAAGTCCC CATGGGCACT AGGGGCTCTG GGAACCCAGT GTCGAGAGGC TTAGAGNCAT TGC

SEQ ID NO:1429: (Length of Sequence = 222 Nucleotides)

AAAACCAAGG AGCAAAGGGG AGACAGAGAG AAAAGTGGGA TGGATTCAA GACATTGCAA CATAGAACTN ACCGAACTGG  
CTTGINTGAG GTAAGGGNGG CAGGATGACT CACAGTTTC TGGGATTATG TGCAACAGGT GGAAGGTGAT GCCATTAGCC  
AGAATAAGGC TGTAGGCTNA AGGGGAGTNA AACTGGTTCT GGGGGTATAA CATTGATAGG CC

SEQ ID NO:1430: (Length of Sequence = 246 Nucleotides)

CAAAATTTCC TGTATCCTTT CATGGGTTT CTTTGTGTTG TTTTGTAAG AACATTTAAC ATGAGATGTA TCTTINAGTT  
GTTGTGTGG TTGANTTTT TTAGATACAT AGTCTCACTC TGTTACCCAG GACTGGAGTG CCAGTGGACA TGATCCACAG  
CTCACTGACA GGCTCAAAC TCCTGGGACC CAAATGAATC CCTCCCACCT NCAGCCCTCC CAAGTAGGCT AGGGACTACA  
GATGTG

SEQ ID NO:1431: (Length of Sequence = 364 Nucleotides)

CTTNCCTC GATGATGCTT CTATAATTTT GCCCTTAAAC AGAACTTTC AAAAGGGAAG AGTTTTTGTG AATGGGGGAG  
AGGGTGAAGG AGGTCAGGCC CCACTCCTTC CTGCATTGTT TACAGTCATT GGAATAAGG CATGGCTCAA ATCGGCCACA  
GGNCGGTGA CCTGTGCCC CAGGGTTTTG CCCCCAAGTG CCTCCATTIA AAAGCATTAA GGCCGGTACG GCATCTTCAA  
AACAGAGGGC TGGCATTGA GGAACCCCTT GCTGCTTTAG TCCCATAGG GTATTTGAAC CCCGCTATA TTTAAGGCA  
TTTTAAATTC TCTTCCCCC ATTTTATTGA CTTTGAACAA TTAA

SEQ ID NO:1432: (Length of Sequence = 208 Nucleotides)

GTGAGTAAAC ATGGATGGAA ACAAATTATT AGGTGTGCA AAGTGAAAA CACCAAAAT AAGATTTAAA AAGAATGTCA  
GGTATCCATA GAAAAATATT AATAGGTCTA ATACATATGT AAAANTTGGC GTCCCAGGGG GNAGAGACTG NAAAGTTATA  
TTTTNNATGG CTGAAATCCC CCAANTTTA ACATAAAGCA CAACATTT

SEQ ID NO:1433: (Length of Sequence = 274 Nucleotides)

GGAAGGTTTT TAATGCATGA AGTATACTTG TGATCTGGA GGTGGAAGAA GATTGATTA AGATAAAGTT TGGCAAAAT  
GATTCTNCC CTAGGATTG GGGATATGTA AATCAAACCA AAGGCACATT CTGCAGCTCA CAGCAACCTT CATTTTTTGT

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CCTAGATTGA GTTATCTATC AAGAATCATT CATTCCTCT CAGCCCTTGC AACTGTTTCC NATGACTTTG GACTTGGCCA  
TGCAACTTGC TTTGGCCAAT ACAATGTGAG TTAA

SEQ ID NO:1434: (Length of Sequence = 249 Nucleotides)

GCTCCATAGG TCTAAGTTTG ANCTTTTCTA GAAAAGGATT TGCAGGACGA TCTGACGAAT CTGGGGCTTC CAAATTAGTT  
CCAACAGTTC TAGTATTTT TTTTTTTTT TTTTGACAGA AGCAAATAAG TAAGTTTAC TTTGTGATTA AAACAAAAGT  
GAAATGCATT TAGTCCAGG AAATGCAAT CCTTCTGCA TCINACTTTT TTTTGCTGTG ACCTCGAGNT TCTCTGTCC  
TCTTCAGTT

SEQ ID NO:1435: (Length of Sequence = 201 Nucleotides)

GAATGGGGCC AATGGCACTC ACTGINTCTT CAGGCCCCCA CGGACGGCAT GCCTGGGGAA GCCTAGTCTA CTTACCATCA  
GCACGTTGAT CTNVCACACA GCATGGAGCC ATAGTTTACA AAGGACCACG GCAGGTCAAG GACAGGCCAC TAAACTTTT  
GGTGCTGGGC ACATNACCCA CCTCACCAN CATCAAAGAC A

SEQ ID NO:1436: (Length of Sequence = 312 Nucleotides)

GGGAAAGGTA TATTAACCTT CTGCATCAAA GATGTAACAG TCATGGGGTC TTGGTGGCCA TCTGGTCTGA GTTAGGTACA  
GGACAAGAAA GAGTCAATTA ATCTATAATA AAGATCAATG ATTGAAAGAA GGGAGATCTG GTCTCTGTCT CTCTAGTCA  
TTTACAGAAC AAGAGCAATG AGGAAGACCG TTATGCTATA ATCTAAGNAA CAGAATTGGA AATATGCTAC TGACTCAGTC  
TCCAGGGGCT TAACTTCCCC CTGGGCATAA TAAATTTAAG GAGTCTTAA ATTTTATTTT CCCTTACATT GG

SEQ ID NO:1437: (Length of Sequence = 294 Nucleotides)

ATTCCAATGG TAATACTAAC GAATTGTGCT ATCTAAATAT TGGATAGTAA AAACGTCAAC ATTTAGAAAA TGTATATCAC  
ACAGGGAACC AATATTTTNC AAATTATCCA CATCTAATAT TAGGCAACCA CGCGCAANAA AAGACAGTT CAAAGTACAG  
GAGAAATGGA TGGATTTTAA TGTGAGATAG TACAAGANGT TTATTGATAT AGTTTCAAGA TTCCATATTG TAATAACCT  
TTAANGAAAC TTCACTTCT TGAGTTTTGG GTATAGGAAT CCAAAAAAAA AAAA

SEQ ID NO:1438: (Length of Sequence = 311 Nucleotides)

GGCCCTTTGA CTTGTGAAT GAGCACAATG AATGCCGCC TACTGATGCT TCINATGATC AGAACTCTTT TTAATAAAAA  
TAAATAACAT AAATCGTTGA ACATAATGTT CNGTTGAAT GCAANCAAA AAAAATATGG NAAACATTTT GNTAAAAATT  
TTTCNGNTA AAACCATGAA CANTGGCTAT GATGAAGGTT ATTACATATG GAAAAAACC TCACACAAGC ATATTTGENT  
TTGGCTTGAA GGAACCCAT CATTAATGC AANGCTAGG ATTCTTTTNG AAGCAGTTGA TCCTCAGGTT T

SEQ ID NO:1439: (Length of Sequence = 265 Nucleotides)

CGTGACACAG TTGAAGGAGT CGCTTAAAGA AGTCCAGCTG GAGAGAGATC AATATGCTGA ACAATAAAAA GGAGAGAGGG  
CCAGTGGCA GCAGAGGATG AGGAAAATNT CGCAGGAGGT TTGCACATTG AAGGAGGAGA AGAAGCATGA TACGCATCGG  
GTAGAGGAGC TNGAGAGGAG CTNTCCAGA CTCAAAAACC AGATGGCINA GCCACTGCC CCGGATGCC CAGCAGTNTC  
CTCTGAGGTG GAGCTNCAAG ACCTT

SEQ ID NO:1440: (Length of Sequence = 241 Nucleotides)

GTITACTCT TGTGAAGATA GCACCTTAT CCTAATENG CATGTACGT GTGACAGATC CTATTCAGT TTTATATTT  
GAAGCAGATA GTAATACTA GATTATTGAC ATTTTNGNT CATGTGTCA GCTATGCTT CAACTTGCT CAAATTATAC

TTGGNATTTT ATAGTGTITT ATTTATTATA TACTCTNCTT GTAATAANNT GGTAATCTAG TTTCAGAAAT CATGCAAATA  
G

SEQ ID NO:1441: (Length of Sequence = 247 Nucleotides)

GACCCCGATA TTCCGGCATC ACATAGATAT CCTCCAGATA AANGGTGCGT CCGTTCCATG TACTGTAGAT GAAATAGTAT  
ATCCCATAGC CCACCACGCA GGGCCCCAGT AGCTTCCCGG GCGCTGGAAG AATCTCTGCT ACCAAACAGT GATAGAAAGG  
ATTGINTCCA AAGCCATCTG CTCTCAGGGC TTCTTCACTG ATAGGNGTIT TTTCAGANA ATAATCCATG CTAAGAATGG  
GGTATTT

SEQ ID NO:1442: (Length of Sequence = 233 Nucleotides)

GATTACAGCC AAGTTCATGA ATACAAATAA AATAGCAATT TCCCTCATTC TCTCTTTTGT TTTCTGNTCA GAGAAATCAG  
GAGATGGGAG CATTATGCTC AGAAACCGAA GAGCTCTTCC AAGAGCTCCA GCTTAGAGTC CAGGCTTCCA GAGCATGCAG  
CCTCCTAACA CGTATGTGGT CACATGTGCA AAGACCTINTA TTACAAATA TTCAGAGCAG NATTTCTINTT AGG

SEQ ID NO:1443: (Length of Sequence = 288 Nucleotides)

AATAACAAT GTGCAGGTTT TTATAACTGA TCGGAAGAAG GTTGACCCNC AGTTATCACC TTAAAAAAT GGTCTTAGTT  
AGGCTTCTC CTTTGTCTT TTTCCAGAAG AAAGTTGGAG TCTGTCAAAT TTCACAAAAT ACCCTGTTGA GATTTTCTT  
GGCTTTGATA AGGGTGAATT CACAGATTAA TTCGGAAGAAG AATTTACGGC TTCTAATCA AATGTTCCT TCCAGGGGNT  
TTTGTGNTA TTAGGNCCT TCTAAAGGTT AACCTAACT TTGATTAT

SEQ ID NO:1444: (Length of Sequence = 208 Nucleotides)

GGAAGTGAAT CACAGGGCCA AAGCCCCCTT TNCCTCAGT GAAGCAACTC AGTAAGATGG CGGTGCAGTG AAGCCTATTC  
CCACACACCT CGGCACATGAT GGAGCAGTCT CCAAGGAAG GCTGAAAGGA CAGCAGGTGG TTGCCTTNGG GTCCCTCCTT  
CCCATANCTT TAGAGTGCCA TTTTTCAGCA ATGGGTAAATA GCATCAAC

SEQ ID NO:1445: (Length of Sequence = 239 Nucleotides)

CCCCGGTCTC TNGGACACCA TTTTCTGCCG CTGGACGCAA GGGTTTGTGT TTAGAGAATC AGAGGGATCT GCATTAGAAC  
AGTTTGAAGG TGGCCCCGTG NCTGTTATTG CACCTGTNCA GGCAITTTCT TTGAAGAAGC TCCTGTTTTC TTGGGAGAAG  
TCTTCTTNGC GGGATTTTTC AGAGGANGAG CAGAAAGNAC TCCTTGTGTA TACCTTGTGT GATATTTTAG AAAGTGCTT

SEQ ID NO:1446: (Length of Sequence = 243 Nucleotides)

TGCAGGGAAT TINTTGATGC AAAACCAGGA AACATTTTAT CTCCACTGGG AATACITTTGA AGAAGGGATT AGAGCGGGGC  
TAGGGCAGGG AGGATCTINTA AAAACAATA TTTGCCAAAC TAAAAACACA TAGGCACACA TGGGNATTAT TTTACTTTCA  
ACAAGTTCTG AAAGTAGTAA CAAAACCAGG GAGAGTTAAA AGAATAATTT AACACTNATG NTTCAGGAAT GCTAAAGGAG  
ACC

SEQ ID NO:1447: (Length of Sequence = 371 Nucleotides)

AGTTATAAAT GAACATCTGT TGCTACTTA ATAGGTCAAT GAGTAGCTGT GACCCATTCT TAATTTGTAT GTAAGCATAT  
TTTTCACATA TTTGTATCTA CTTCATTTTC CCTTGAAGCT TGCCAAATTG GTACACTTCA GTTGAACCTG ATGTCTCTTA  
TATGCTGTAC CACCTTCTTA AAAATTGAAT TATCTTCTCT TCCACTAGA TTGTCTCAA AGCATTTGTT TTTCTGAGC  
TTTCCACTCT TGACCATAAG ATGGTAGCAT TCCCTAAGGA TATTGCAGCA CAGTCTAATT CCCTGGTTG TCATCTACAG  
TTAAATCGCA AATAAAAAAT AATAATAAGC AGCAACTGAT TGCTCAAGTT G



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SEQ ID NO:1448: (Length of Sequence = 366 Nucleotides)

AATTTTGTGT CCTGTAGGAA ATGCTTCCTT GGGTGTGT ATTATAGCCC AATCCAAGTC ATCCCTGAGA ACATCCCCAG  
 GTTGTAAGGA TTAGTCAGAA GTCATGATGA CTGTCTATA TAAATATTG GCCTATTAAAC TAAATTAGT ACCTTNCAT  
 TTCTCCNCTT TCTTGGGCGG GGCAGCGGG GAGTGCAGG GAGGGGAAAT AGGGAACGTN CAATTGINTT TTAAGTAATG  
 CTCATAAAT TCTTAGNCAA AGATGATCTT GCGCTCCACC TTGTGACCC ACCGCATACG GGGTACATCT ATCTGGCCCTG  
 TCTCTAGGCC TAGACAGAAG GAACAGGGAG GGTATTGTT AACTTT

SEQ ID NO:1449: (Length of Sequence = 234 Nucleotides)

GTGTGGGAG GGACCGGTG GGAGGTAAC GAATCATAGG AGCAGTTTCC CCCATGCAGC TGTCGNGATA GTNAGTTTCT  
 CATGAGATCT GCTGGTTTAA TAAGCTTCTA GTGTTCCTCC TGCTGGCACT CATTCTCTCT CTGCCCACC TGTAAGAGG  
 TGCTTCTGC CATGATTGTA AGTTTCTGA GGCTTNCCTA GCCATGCAA ACTGTGAGTC AATTAAACCT CTCT

SEQ ID NO:1450: (Length of Sequence = 220 Nucleotides)

GCTTTCCTC TCCCTGTTT GTTTGTAACT CTAAGGAAGC AGAGCCTCTG AGACCACACA CAGCAGGTC GCCCGTCCCC  
 AGAGGCACCC CGGCCAGGAC GGCAGGAGA GGAGACCCCT GTTCTGCTAT GCNCTGTGCG CCCGCCACGG TGNTCTCCGC  
 AGGTGAGGC AGGAGGGTGG GTGGAGGCGC CACTGNTCTT CAGCTGGAAG GGCGGGGCAT

SEQ ID NO:1451: (Length of Sequence = 403 Nucleotides)

CCGCTGTTCA CCTACGGCT GATTAACTT GCCTTCCTGT CCTCCAAGAC CAGATGATGA TTATTCTCCA CGTCTAAGA  
 GACCAAGGC CAATGAGCTA CGCAGCCAC CAGTCCCGGA ACCCGCAAT GCTGGGAAGC GGAAAGTGAG GGAGTTCAAC  
 TTGAGAAAT GGAATGCTCG CATCACTGAT CTACGTAAAC AAGTTGAAGA ATTGTTTGA AGGAATATG CTCAAGCCAT  
 AAAAGCCAAA GGTCCGGTGA CGATCCCGTA CCTCTTTTC TAGTCTCATG TTGAAGATCT TTATGTAGAA GGAATTCTG  
 AAGGAATTCC TTTTAGAAGG CCATCTACTT ACGGAATTCC TCGNCTGGAG AGGATATTAC TTGCAAAGGG AAAGGATTCC  
 TTT

SEQ ID NO:1452: (Length of Sequence = 353 Nucleotides)

TGCTAGAGA GGGGCGGGA TTAGAGAGC GTTCTCTG CCTATCTGAT CGCCTCTCA GACACTGATC TATTAGTCTA  
 GTGCTCAAT TACTTGATT GTAATGTTT CTGCAATTT TTGCTTTTCA AATTCTTTT ACCCTAACT GTAAATACGC  
 CAGGAGTAGG TAAAACTTA CAGGTAAACA TTGCCAAGAN ATAAGGATTT TNATGCTTC TGCTCAGTGG CATAACTCAA  
 ATCATATGAG ATAGATTCTT TGCATCTGT CCATGTGATT TCTCTGAGG TAATTACAG CACTTTGTCA CGTAGGNAT  
 TTTTCTTCCC CAGTCTGCT ACTCTCAAC TGG

SEQ ID NO:1453: (Length of Sequence = 258 Nucleotides)

GTGCCCCIN CTGTCTTCT GTNACCCAGA GAAAGCTTCA CAAGCATGCC TGNAAITNAG TTGCACCATT TTATTACAGC  
 TGAAGANTT GANTGTAAAG AAGGAAGTT AATAGANCA ATATNCAGC AGATTATTG ATGGGGAGGT ATCTATTGTA  
 GTTTGGCCAG TGAAGGCAGG TCATAGAGGA AAATTTAGGT AAGTCGATT TNCITTAATA AGAGGCCCAA GAGTTAGTAC  
 CTCAGGATTT TGTTTTCT

SEQ ID NO:1454: (Length of Sequence = 328 Nucleotides)

GAGATGGAGT CTGTCTCTG CGCCAGGCT GGGGTGCACT GGCGGATCT CTGCTCACTG CAAGCCCCGC CTCCAGGTT  
 CAGGCCATTC TCCTGCCTCA GCTCCCGAG TAGCTGGGAC TACAGGCGCC TGGCAACAG NCCAGCTAAT TTTTGTATT

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TTTGGTGGAG ACGGGGTTTC ACCGTGTTAG CCAGGATGGT CTGATCTCC CGACCTCATG ACCTGCCCGC CTCGGNCTCC  
CAAATTGCTG GGATTACAGG CGINACAACC GCGCCCGGCC GGTAGCAATA GTTTTAATTA AGGTCTTAA ATCATACAAA  
AAGGAATT

SEQ ID NO:1455: (Length of Sequence = 342 Nucleotides)

AATTTAGGTA GATTAGCATT CCCATGTAAC TTACCAGAAT CAGAATGAGA ATTGAGAAGT CACCTGANIT GGCCGGGCAT  
GGTGGCTCAC ACCTGTAATC CCAGCACCTT GGGAGGCCAA GGCAGGCAGA TCATCTGAGG TCAGGAGTTC GAGACCAGCC  
TGGCCAACAT AGTGAAATCC CGCCCCTACT AAAAATACAA AAAATTAGCC AGGCACCTG TCACAGCCC CCACACAGAC  
TCGAGGGGCC CCCATCTCCT GTTCTGAACC CAACAGGGTG GTCCCACTNT GGGACCACAA ACCAGGTATG ACTGTTTNG  
AAGCAGGCTC ACTACCAGGN TA

SEQ ID NO:1456: (Length of Sequence = 296 Nucleotides)

ATCTTTGACC TATTAGGTGA ACAAATGAAC CTCACAGGAC ACACAGTATT TTTTAAAGGC AGACTCGCTC TCTTTTTTGC  
CAGTNAGCAG TTCTAGCTAA CCAAGTTACA CACTGTGGGT ATTCTTGCCCT GCCTCTTGAA TACAAAGGCC TAGTTCAGT  
GTGCTTTTT TNAATTCAA TCAATTTTT CTCTTTCTT TTTTGAGATA AAACIATTAA AAGTACTACT ATATATATAA  
AANCTCAAAT CACTTTTTG GCCTCCTCCT CGTGACCAG GGAGTATATT CTGACG

SEQ ID NO:1457: (Length of Sequence = 314 Nucleotides)

GAGGATTCAT AAGTAGAATT TATAAGAAC TCCAAAGAAT CAATAACAAA AAGACTGGCT ATGGCCTTCG NAGAGCAGCT  
GCTGTCTGG AAATCAGAGG ACAGTGAAGG GAAGTCCGAA GATGAGCCTG ACACCATTC GACATCCGTC CTCCTGCAGG  
TGGTGGAGCT GCTAGGAAAC TTCTTINIGGA CCACGGACAT GGCAGCCTGC NTGAAGGAGC TTGTTTTCCA TCTCCTGGCA  
GAGCTCCTAC GCACGGTGCA CACCCTGGAG CAGAGGCGGC ACCCCGCTGG CCTGTNCTCC TCANTCGCCC TCCA

SEQ ID NO:1458: (Length of Sequence = 254 Nucleotides)

GTCCAGTCA CAGATGTTTC ATTATCACTA TTCAATATTA TTAAGCATCT AATAAGTATA AGGATGCATG AGTCAAGGGT  
CCCTACCTTC AGGTGCGAAG CAGGAAAGAG ACCAGATCCT AGAACAATAG GACATGGTAC CCGCTGCCTA GACGGAATTT  
AGAATCOGGC TGGGGTGAAG AGATTATGA GCGAGTCATG CCATCAATGT GCTGTAACTG AGGTCTTAA AACCACCAG  
CCCGACACA AACT

SEQ ID NO:1459: (Length of Sequence = 343 Nucleotides)

AGAAAGGCTC AGGGATTAAG TAAAAGGCT AGTACATCTG GGCTCCATTC CATTATTTAG TCATCCAAA GAAGTGAAGT  
GGAGGATAGT GAGCATCTAG TATATGCCAG GCACTAGACT GGCTGCAGAG GAITCAGAGA TACAAAAAC ACACTTGTA  
CCAATTTAAT TTGAATTTAC CAAGTTGAAT GGCAAAAATA TCTTAAAAAT TTAGATGCCT TGATAAATGT AGTGGTATAT  
TATGATAGCC ATTCTATGCC TTGAGATACC GTGTATTCTA TATGTATAG TTGAGGGATT GAGGCCAGTT GGGAGGAATA  
AATTATAGCT TGTGCTTATC AGG

SEQ ID NO:1460: (Length of Sequence = 348 Nucleotides)

ATTGTCAACA GTGTTTTTAT TTATACCTAC AAAAAGAAAA CAAGATGATG GTATCAAAAG GACAATTTAC AACTAAGAA  
TAGTAACATA GCTTTCAGCA TCCTGTGCTT GANCAILACA CATCTACAAG TCTTTCAAAT CTTAATGCAA CAGGAATGTN  
TTTGGAGACC NGCAAGAAACA TCAATAGAGA GCACTGATTC CAGCAAAAAG CCACTAACCT TTTAGATAG AAGTCCNCA  
AACGNATTGT TAGGGAGGAT TTGGGAGAAG CAGCCCCTTT GCTTAATACA TINGGACCCC TTTCCCTTAA GTTGAGGTTC  
AACCCTTGAA TGCAATAACT TGGCATAA

SEQ ID NO:1461: (Length of Sequence = 343 Nucleotides)

TGGGAAGATC AGGCTTACT TGTTTTCTG TCCCTCCAG CGCTAGATCA ACACAGTGT AAATTAGTTG AATTTCAGTG  
GAGGAGATAA GACAGAAATG AAATCTGTGA AGATTGAGAC TTTCCTAAGT TAAACCAGT CTTGAGTTAC AGATCAAGAT  
GATGCCAGAA ATAACATCAC ACTGAAACAT CAGTCAAATG TAGTCATCAT GGCAAAGGCC AAATGTCCCT TTCTTTTTTT  
GCCTCCGCTT GCCTGGGAAT TTAGCATCCC CTAAAGCCAC TCATCTGGGA CAGGATTITA GGGTGTGTAC ATGTTTTTCA  
ATCTCCACAG GACCCAGCTG TGT

SEQ ID NO:1462: (Length of Sequence = 335 Nucleotides)

GGCATGGAGC AGGCAATGAC TTGTTCATAG TCGCTGCAGT TATGAGCACC AGCTTGAAGT TAGGAAGTCT TATAAATTTT  
TGTTTTCAAC CAAGTATTTGA GTGTCTGCTA TGTTCTGAGC ACTGCGCTAG GTGCTGAAAT CTCACCTTCTA CTGAGGAAGA  
CAGGAACATA AATGGTGATG ATCATTGCAT TAGAAGTGAT GCCACGGGAA TAGTGTGGGG CCTCTCCAGG GGGATCTNAA  
GGTAGGGAGA CCACACTTCT CCAGTGGTGG AGAGGGCAGA CAGCGTGTAT NGGTCCTCA AGGTCTNATT GCAAAGGTCA  
TGTTTTAGCT GTTCA

SEQ ID NO:1463: (Length of Sequence = 382 Nucleotides)

GGACCGCTTT CGGTTCCTCA GGATAAACAC GAGCATGCC ACCACGGTGA AGGCGGAGGT GACAAACACC AGCAGCAGTC  
CCGGGACCAA CACCGAGATG GACACCTGTC TGGTGTCTAG GTAGGAGTTG GAGTGGCTCC CGGTCTCCGC CAACCCAGTG  
CTGTTTTTAC TGTGCGAAGT TAACGTGGGC GAGATCCTAG CGTACAGCTG AGGGCAGATC TCGTCATTGG AGAGGAGCAT  
GAAATCCTTT CTAAAGAAGT TCACCGGCT CTCACACTIN AGGTGCTCA TCAGCACTTC GGAACCCAAG CMTCTGNCC  
ACTTGCTTGA AAGGCACAAT TGTCAGGAG CACTNCCAGG GGTTCCTGT GAGGTCTAT CT

SEQ ID NO:1464: (Length of Sequence = 187 Nucleotides)

AANGACTCA TTCAAAGAA GAGCGTCTC CTGACAAGGG ACGTTTCCCA GAGAGGAGAC GTGTTAGTGC AACAAAGACC  
AGGCCCTGGN AGCCAAGAAA GCCCTCCAGA TGCTTGAGG ACGCGTCTN TAGCGGTG GSCCAAGNCC GGGTGGGAC  
AGACAATGAC AAGAGGCAAG ACAGCCG

SEQ ID NO:1465: (Length of Sequence = 276 Nucleotides)

TTTACACAAT CAGTATAATA CTGATAGGAA AACTTGACTG AGTTCAGAAA ANGAAAACGA AGTAGAGATC TCACTTGCAT  
CAGAACAAAA TGTCATCTA TTAGCAGATA ATATTCATCA GTATTTTTTG AAAATACAAT ACCACANGAA AGAAACAGTG  
GACATTGGA GGGCTTTGAG GCCTGTGGTG GAAAAGGAAT TATCTNCCC TAAANCTAG ATAGAAGCAT TCTCAGANAC  
TGTGTGTA TGTGTGCCCT CTAAGTACAG AGTTGA

SEQ ID NO:1466: (Length of Sequence = 375 Nucleotides)

GGGTTTINAC CATGTINCC AGGCTGGGCT CAAGTGATCC ACCCTCTTG GCTTCTCAA GTGCTGGGAC TACAGGTGTG  
AGCCACTGTG CCTGGCTGGT TTTTNTTTT TNAATGAACA TGTTGCAAAT CACGAGAGC ACCININATT CTGCATTINC  
TGGGTATAA CAAACATGT CATCTCTGCC TACATTAAA AGGCTCTGGT GTATTTTAA TATGTCTTT CAATTAGTA  
ATTAACTTA ATTTTCTTT GAGCTGAGAT GTTATTCATT GTTCTCTAG AGTTGCTTT ATTGTTCAT ATATGTTTCC  
CTTAGCATGT TTTTGTATC TCTTAGTTAT TAGATACCTG AACATTGAC ATTGG

SEQ ID NO:1467: (Length of Sequence = 319 Nucleotides)

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TGATAAAAGG AAAACGTTTT GATTTATAGT ACCAAGTGCT TAAACACAAG GATAGTGTTA GATTTTCGAG TGACTTTCCT  
 TTTTGCAATTT TTTGGCAGTA AAAGCCAAAC GTTGATTTTG TCCTTTTCAG AGTTGTCCAG CCTTTTTTC CTTTGTCCAA  
 AATGATTCTA AATAGAATCT AATAAACCAA TGTAGCATTA TTTTTTCTA AATGAAGCCC CAAAAAGAA AAGTGCCTTG  
 CATCATTTAA AAAAAATAAT TAAATCCTCA TGGCCTCTAA ATTAGGTATG TAGGGCACTG AAAAGTTCTT AACATTTTT

SEQ ID NO:1468: (Length of Sequence = 352 Nucleotides)

TTTGGTTAAC ATTCCAAACA TGTATAACCA ATTAACATGG CCTAGGGTTT TCTTTTTATT GGTATTCACT TCAGTAACTT  
 GAATCCACAG ATATAAGCAG TATATAACCA GAAAGTTACA AGTAAACACA AATTATACAT GCAAATTTCT GTTCACAAAG  
 GTCACATGTG CAGGTACATG ANTTAGAAGC GTGCATCTAG GATTATGGCC AAACGTTTTT AAAAATGCAG AAATGTAAAA  
 TTACATCTTG AAAATATGAA GAGATGGTCT ACACACTTCA AAAATCAAAT GTTGCTTATA CCAGAGATGT ATGTCAATCA  
 CGGENTCAA GTGACAAGCA GTAAGGATCC TC

SEQ ID NO:1469: (Length of Sequence = 427 Nucleotides)

GAGATGGAGT CTGTCTCTGT NACCCAGGCT AGAGTGCAGT GCGAGATCT CGGCTTACTG CAACCTCCGC CTCCTGGGTT  
 CAAGTGATTC CCTCGCTCA GCTCCCAAG TAGCTGGGAT TACAGGCGCC TGNACCGCA CCCAGCTAAT TTTTGTATTT  
 TNAGTAGAGA CGGGGCTTTA TCATCTTGGC CAGGCTGGCC TCCAACCTCT GACCATGTGA TTCACCTGCC TCCACCTCCC  
 AAAGTCTGG AATTACAGGT GTGAGTCACC ACACCCGGCC GGATCTGTGTT AGTTTTCTTT AATGCATATT GAGTTTCTTT  
 AGTTTAAACA CACTTAT CTGGTTTGA CCCAACTAT TCACTATGTT TCTTGGGGGA NAGCTINGAA TCTTGGGGTG  
 GNAGCCAAT TGTAAATAGC CAGGGTG

SEQ ID NO:1470: (Length of Sequence = 426 Nucleotides)

AGGAGTTTGA GACCATCCTG GGCAACANAG GAAACCCCG TCTCTACAAA AAGAAAATTT GGTTTTINATA TTTATTTGTA  
 TTAAATTTTT TAGAAACATA GCTGGGCATG GTGGCACAG CCTGTAGTCC TAGCTACTCA GGGGGCTGAG GTGGGAGGAT  
 TGCTTGAGCC CAGGAAGTTG AGGCTGCATT AAGTGTGAT CACACCCTG TNCTGCAGCC TGGGTGACAG AGTGAGACCC  
 TGGACTCCA GACAGGTGCA CACCACCACA CTCAGCTAAT TTTTGTAGA AATGAGGTCT CACTATGTG CCCAGGTGG  
 TCTTGAATC CCGGGCTCAA GTGATCCACC TGTCTCAGCC TCTCAAAGTG CTGGGATTAC AGGCATGAGT CACAGTGCCT  
 GGGCCCAAT TCATAGTCT AAACAT

SEQ ID NO:1471: (Length of Sequence = 372 Nucleotides)

AGAATATTAA AAAAGACCAG ACGCTTAAAG CAAGANTTGA AATACCTAGT TGTAAGATG TGGCACCTGT GGAGAAGACT  
 ATTAAGTTGC TTCCCACTAG CCATGTTGCA AGACTACAAA TATTCAGTGT AGAAGGACAA AAGGCAATTC AGATCAAACA  
 TCAGGATGAG GTTAATTGGA TAGCGGTGA TATTATGCAT AANCTTATTT TTCAAATGTA TGATGAAGGA GAAAGAGAAA  
 TCAATATAAC ATCAGCTTTA GCAGAAAAA TTAAAGTTAA TTGGACTCCT NAGGTTAACA AAGAACACTT GCTACAGGT  
 CTGCTTCTG ATGTGCAAGT ACCNACATCT GTAAAAGATA TNCCTATTT CC

SEQ ID NO:1472: (Length of Sequence = 332 Nucleotides)

GGTAGAGACA GGGTCTCACC CTGTTGCTCA GGCTGGTCTC AAACCTCTGG GCTCAAGCNA TCCTTTCACC TTGGCCTTCC  
 AAAGTCTAG AACTGGCCAG GGGTGGTGGC TCATGCTGT AATCCAGCA CTITNGGAGG CAGAGGCGGG CAGGGAGTTT  
 AAGACCAACC TGGCCAACAC GGTGAACCCA CTCTCCACCA AAANTACAAA ATTTAGCTGG ATGTGGTGGT GGGGCTCT  
 AATCCAGCC ACTCAGGAGG CTGAGGCAGG AGANTACTT GANCCCGGA GCGGAGGTT GCAATGAGCA GACAGGGCT  
 GGACGACAGA GT

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SEQ ID NO:1473: (Length of Sequence = 434 Nucleotides)

GCCTTTAATT TGGTTTINCT ATGCCAGTAC AGAAACATCT GGACAACACT CTTGAGCCTG CAGAGGCTCA CGGCCACACC  
 CACTTCTGCC GCAGGACTGT CTGTTGAGGA GCCGAACCGA TGAGGCACAG TAGCCAGGCC CTCCGAGGG CTCCAGAAGC  
 TCTAGGTTTA CGGGGTCACC TTCTGTAGG TGACGTGAAG ATGCTGAGTC ATTGGCTGTN TGTGGTTGC CATGGAGACC  
 GTCTGCTCAA GTTTGCCTTC AGAATTCAGC CTGAACCTCC GGGTGATCTG CTCTACGTGG GGCTCCTTGG CGAAGGAGAT  
 CCTGGCGATG GAGTGGGATG CGATGCACAG NTCCTGCCCG TTCAACTGCG CCTCCTNCAC TTTCCANCAC GGCTGTTTC  
 TTGGCGTGAC AAAAGGCCAC CTTTTGGTG TOGG

SEQ ID NO:1474: (Length of Sequence = 402 Nucleotides)

GACGTTNAGG TGGGAGGTTT GTTTGAGCAA CATAGTGAGA CCCCCTCTCT ACACAAAAAC AAAAAAATA AAAAATTATC  
 TGAGCATAGT GGAGCATGGC TATGGTCCAA GCTACGTGGG AGGCTGAGGT GGGAGGATTG CTTCGNTCCA GGAGTTCAAG  
 GCTGCAGTAA GCAGTAATGG TGCTACTTGG CTTCAGCCTG GCGACACAG CAAGACCTG TCTCGAAAAA ATAAATAAAG  
 TAAATAAAGT TGAGAATTTT GTATTTGGT ACAGAAGGTC TATGCCCTTN AAATGCTCCA TTTGGACACG CTTAGGGCAG  
 GACGCTCTGA AACTGGGAAG CCTGGGGCCC TGTACANTCT TGGCTGTCCC CTGTACANTC TCCTAACTCT AGAGGGCTGG  
 TT

SEQ ID NO:1475: (Length of Sequence = 324 Nucleotides)

TTGCATACCT GTGCTGTGTC AGACCAGGCA GAGTCATCTC ATTCCACTGG TCTAATGGAT GGCAATTGAA TTTAATTAAAC  
 AAAACTCCTT TGACTTAGTT TCATACGTG CTGAATGTAA TGGAACTCTC TCTGCCCCCT TTATCTCTCT CTCTTTCCT  
 CTCTCTCAAC TAAAAATTGT CCTTAACATA CATCCACTTT AAGAATATTA AAGGCTATAC ATTATACTTA AAAGATACAA  
 TACAGTCATC CCCCCTTCCA TGACTTAAAT TGTATAACAT AAAATAATTA AAAAGTACT TGGATAGTG ATACACAGTA  
 TAGG

SEQ ID NO:1476: (Length of Sequence = 244 Nucleotides)

GAAAAACCAG AACTCAAAA TCAGAGTGCC TCTCTCTC CAAAGGAACA CAGCTCTCA CCAGCAACGG NACAAAGCTG  
 GACAGAGAAT GACTTTGACA AATTGAGAGA GGAAGGCTTC AGAAGATCAA ACTACTCTGA GCTAAAGGAG GAAGTTGAA  
 CCNATGCCAA AGAAGTTAAA AACTTTGAAA AAAAATINGA CGGATNGATA ACTAGNATAA CGATGCAGA GAAGTCCTTA  
 AAGG

SEQ ID NO:1477: (Length of Sequence = 338 Nucleotides)

ACAACACATA CTGAAACTG ATTATGACTG TTTTGAATG CATTTTGATT CCTTAGCTAT GCTCTCAGG TGAAAGGACC  
 AATGGCAAGA GGAAGCAGAG GATTCATGCA CTAGAAAATA CTGAGAGAGA TCAGAGTATT CTGTCTACTT CACTGAAGAT  
 ATGGTCTATT GAGGGAAAAC TAATTACAG TTGATCCAAG GAACAAAAGA ATGCTGTTAT GTGACATTTT GTTGGGAAAC  
 TGACTGTAAT AATAATAAAN CAAATGTCCA GAGGAATGTG TCACATAATT NCAGTGTTTA TGGTGATAA TTCAAAGGCA  
 TAGATGAATT GGGATTCT

SEQ ID NO:1478: (Length of Sequence = 397 Nucleotides)

ACCCCTTCCC ATTCTGATAA TCTGGCCATG ACTAGCAGAA GCACAGCTAG GCCCAATGGG CAACCCAGG CCAGCAAAAT  
 TCCCAGTTC AAATTGGTCC TGCTGGGAGA ATCTGCAGTG GGAAGTCAA GCTGGTAAAT AGCTTTGTG AAAGGGCAGT  
 TCCATGAGTA CCAGGAGAGC ACCATGGAG CGGCCTTCCT CACCACTCC GTTTGINTAG ATGACACAAC AGTGAACTTT  
 GAGATCTGGG ACACAGCTGG GCAGGAGCGA TATCAGCT TAGCCCCAT GGTACTACAG GGGTGCCCA GCTNCAATCG

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TGGGTTTACG ACATTACTAA TCAGGGAAAC CTTTGTCCCG AGCAAAGACA TGGGGTGAAG GGACTACAGC GACAGGC

SEQ ID NO:1479: (Length of Sequence = 389 Nucleotides)

GCTAGAGNGC CGGCTTGCGG GGTGAGTGG CCCGAGCTAA GGGTGGGAG ACCCAAGGGC GGCGACTACG ACGGCGTTGA  
TATCGTGGT AACGACGGCC TCAGCAGGCG GGAAGATGA AAGGCGGNT CGAGCTGGGA GATGTGACAC CACACAATAT  
TAANCAGTTG AAAAGATTGA NTCAGGTCAT CTTTCCAGTC AGCTACAATG ACAAGTTCTA CAAGGATGTA CTGGAGGTTG  
GCGAGCTAGC AAAACTTGCC TATTTCATG ATATINCTGT AGGTGAGTA TGCTGTAGG TGGATCATTC ACAGAATCAG  
AAGAGACTTT ACATCATGGA CACTAGGGAT GTTGGGCAC CTTACCGAAG CTAGGAATAG GGACTAAAT

SEQ ID NO:1480: (Length of Sequence = 384 Nucleotides)

CTGAGAGCCA GGAGCTCTTG CGGAGAAGCC ACTGTCTGCA CGCCACTGC TCGATGACC CTGCTCTGCC ATCCCTGTGC  
TCCAAGGGCC GGGCCCTGCC GTTGCCTGTG CCAGACGGGT CTCAGGGAGA TGCCGGCCAG CAGGTATGCA TGGCGAGGCC  
TGGGCATCAA GGCCCGGATT CTATGGCTGC CAGTTTCATT CTCTCGTGTG TTGTCCCCCT AGCAAGACTT ATGAGGTTCC  
TTGAGGACAA GACTCCCTCC TGCCACCTGG TCTGTTTCTT GAACATTCAC TGCACTAGCA CGGCCCCGGG ACGCAGNCCT  
TGGGAATCAG GCGTCGGCC ATGGTAGAGC GGCTNGCACT GCTCGGCACC GTGACGGACG TTG

SEQ ID NO:1481: (Length of Sequence = 257 Nucleotides)

ATGTCTAGAG CTATTCTGTT TTCCAAGCC ATTTGGCTAG TAGGCCCTAA TTGGTCAGTG GGTCTGACC CCCCAATCCC  
TACCTCAGCA GCAGGAAAGG GAAGTGCTGG TCTCCACTG TNCCTACTAA GGCCCCGTGG TATCCTGGCA GAAGCCTCTG  
CATGTATCTN CGCTCTGAGG ATGGGGGTTT NAAACAAA TAAGACCCTA CGTCTACTA CCTTGAGCTT GGCTCTAAAA  
CCACGGGAAA GGAAGAG

SEQ ID NO:1482: (Length of Sequence = 345 Nucleotides)

AATTGAGCTC AGACTAAAGG AATCTTTTT TGAATAATA GTGATTAAGT TATGATATTC CTGTGGCCT AAGAACAATG  
CCTATGATTT AGTTGTGTA TGTATATTG TACTTATAAC CAAACAATCG ATTGGGTACA AGTAGCCTTA GGGCAATACT  
TCCTTAAAAA CATGTTCTG ATAACTAAA GCTTAGCAT TAACCAGAAG TCATAATTIA ATAGTATGT AAAAATACCT  
CATTTATTTT AAATCCTGTG TTGGGGTAGA GGATTACAGT TGTCAATTCA AATACATGAA TCTCTGTCA AAAGNGGTAC  
TTTGACAGTT TCATGGGAGG TCAGG

SEQ ID NO:1483: (Length of Sequence = 344 Nucleotides)

CTGATGACT GTTTAATAT GCTGAGTACT GTTGATTCAA CAACAAACCT TAATGGGTGA TGAGCTTTTG CATACCAATA  
TGAATTNTC AGCACTCTG AAACTGGCC ATCATTTTNC AAATTCACAA TTGCTGGAT GTCAGGGAAC AATAGGAAGA  
AGAATGAGCG TCAATTTCA TGTCTTCTT TGCTTCTTCA CTGGCCTTCC ATAGAAGTAG TCAGAAAAA ACAAGCACC  
ATCAACCACA CTTACAAAC AATTCATGTT GGCCTAAGCT TTGCTCAACA TTCATATGAC AGAAGGTAGN ATAATGAAAA  
GGGACTGCTG GGCATCACTT TCCC

SEQ ID NO:1484: (Length of Sequence = 380 Nucleotides)

TTCTTAAAAG CAGTCTTTCC TACAACCTGT ATGCAGTAAG TCACTTAAGC ACTTAAGTGT CATATGGGTA CTTACATGGA  
ATTAGAGCAC TTCTGAATG GAATTAGAAA AAGGCAAAAT GTGCTCTCA CTGATGCATT CATTTCTTAC AGAGATATGA  
TACCAAGGGC CAATAAGTGA ATAGAAAAAG GGAGGAGGAT TTATTAATGG AATGAGTTCT AACCTGTCT CTTACCAGCC  
ATATGACTTT GGGNTAAATA ATCAAACGCC CAATGAGCTC AACTGTCTAT TATAGGGGA ATTTAAATGA GAGAATGCAC  
ATTAATTATG CATTCAGAG TACATGGGAA AATAGTAAAA GCTTAATATT TAATACGGTC

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SEQ ID NO:1485: (Length of Sequence = 334 Nucleotides)

GAAGGAGCGG GGAACCAATT TCTCACTCTC CTCCCACTTG CTATTGTCAG AAGAGCGAGA TTTCAGGGCA GCAGAGAGCA  
TCAGGAGATC AAAAGAAGAC ACTGCTGGGT GGTCCCTTAG CAAGTTTATG CTCTTTTNCG TGCTGGGAGA GTATTCTCTG  
GGCACAGTGC CAAGTGTCTC TAAGAACTA GTACATGCTG ANCTTAAGGG CTGCGGATT CTGGGTGGTG GATTTCCTTA  
GGCTTGTCAG AGCTGCCAG TGCTCTCTC TGTCGCTCTG ATTTCCATTG ACGCTGAGCA GTCTGCACTN CCTTGGACAG  
ACCCACTGGC ATTT

SEQ ID NO:1486: (Length of Sequence = 164 Nucleotides)

CTGAACCGGA AAGATGGGCG TGCTGTNCCT CTAAGCCTAG GCTTCTGTCA CTAAAGCACC AAGGGCATCG CACACAGGCT  
TGCGAGAGGG GCCATGGCCA GANTCACCAC CTTGAGACAA GTATGTGTGA GGTCTCGAAT CCCTTGGCAC CCCAAGCAT  
GCAG

SEQ ID NO:1487: (Length of Sequence = 298 Nucleotides)

TTGAACCCAG GGGGCGAGGA TTGCAGTGAG CCGAGATCGT NCTGCTGTAC TCCAGCCTGG GCAACAGAGC GAGACTCCAT  
TTCAAAAACG AGAACCAGA GGGCTCACTT GCGGCTTCCA CCACACAGTG AGAAGGCACC ATCTATGAGC CAGGAAGCGG  
GCGCTCACCT AACAGGATCT NCTGGGCTT GACCCAGGNC TTTACAACTT CTAGANCCAT GAAAAATTC TGTTGTCTCT  
AGCAGNCCAA ACAGAATTAG AACCATTAAT TTCTATTTCT CCTTAGCTT AACACTGG

SEQ ID NO:1488: (Length of Sequence = 343 Nucleotides)

TTGCTAGTTC AGGNTCAATG TCATGGCTGT AACTAATATA GTACATTGCG CAGTTGCAAC GCGAAATGAT CGCTGGACT  
TGCTGGGCTT GCTGTGCTC ANCTGGCTGG TTCCAATCTG TGGTGTGTGT AACCATGCCG CCCACTGCCT GCCACTCTC  
CATCAGCTCC TGCACAGAGT CCAGACTACG CTGCGGTGTC TCGCTCTTTT GCGCAGGTG AAGTGCAGTG GCGCAATCTC  
AGCTCACTGC AACCTCGCC TNCGGGTTC AAGCAATTNT CCCCACCTCA GCCTTNGAG TAGCTGGGAT GACAGGCGGC  
CGCCACAACG GCCAACTAAT TTT

SEQ ID NO:1489: (Length of Sequence = 412 Nucleotides)

ATTACCTTTT TATAACCCAA GANTGCCATT ATTACACCCG GAACCTTCAC CAAATAAGTA GGAAACTAC ACTGAGAACA  
ATTGGGCCCA GCTGTCTCG GCCATTTCCT CTTCCTACCG CCTCTGTGTC ATTCCAGCAA TCTAATCGA TGAATGATCT  
TCCAGTTGGA AAGATGGGGA CTTACAATG TGCAGACCA AAGATCTGTC TTCAAAGGC CAATCACCAC TGTATCCTTC  
GTTCCCTTAA ATGTGTTGT TTATTGTAAT ATATTAAGGA ATAATATCAA GGGTAATTAT CTATGTATAA AATGTATGNT  
TAATTTTITA GGGGACCATC ATACTGTTT TCCACAGTGG CTGTACATTT TACAATTCCT ACCAACAATG CACAGGGTTC  
CATGGTTCCT AT

SEQ ID NO:1490: (Length of Sequence = 356 Nucleotides)

ATACCTTCTT TCATTTAAGC CACCCAGTCT ATGGTACTTC GTTATGGCAG CCTTAGCAAA CTAAATACGA TTCTCATCA  
GGTTCAGATT TNCCTAATA AAATGTGTTT GTGAGGGTGG TACAAGCAAC AGTGATATAT TTCTTTAAGT ATTTTCCCCC  
AGCCAAATTC CAACAAGACA ATAATGTCTA ATGCACTGTC TGGTGAATCG GAAATCTCC TGAATGAAAT AAGAGCCTCT  
AATACCCAAA AGGGAATGAA GTGAGTCATC ACCACAGCCT GTGAATGAAA ATAATGCTC TGAGGAAAAC ACATGTAAAA  
AATGACACCA TGTGGATTAA ATGCGGNACT ACAAGT

SEQ ID NO:1491: (Length of Sequence = 335 Nucleotides)

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TTCACIACCA AAACCAGTTA CAACAGTTCC AGCCAAATAA CACAGGCTAC CCCATATGCC ACGACACAGA TCTTGCAATC  
CAACAGCATA CATGANTTGG CTGTGGTCT GCGTGATCCN CAATGGAAAA GCTCAATTCA GCAAAAAACA GATCTGNTGG  
GATTGGTTA TTCTCTACCT GATCAGAACA AAGGTAAACN TGCCTTACTT TACATTCTCG ACTACCGNIT GGCTGAGGGA  
TTGINTAATA GAATGCCACA NAACCAGTCT NAGGATTTTA GCANCCACCA GCTCTNACAA CAGCTCAGGA AGGAGTTGGC  
AGTNTCTCAG GTGGG

SEQ ID NO:1492: (Length of Sequence = 321 Nucleotides)

GACTTCATAA AACATCCTTT ACTATATTTT NAAAGAAAGC AGAAGTAACA GCAATATATG TAAAAGTAAT GNTTTAATGN  
CTATAAGCAA GNCAAGCAA TAGAATTGTG CTTCCTTTGC AGACTGGGN CAATGAAATG TTTAGCTACA ATTTNCCCAT  
ACAAACATGA AACAATATTC ATATAGNNTA ANCACCTCA CAAATAACTG ATGGGTGATG ANCACACACC AAGTTCGACC  
AAAGCAAAAA NTAACTGAA AATTGTTGGG TGGGTTATT CATATTTTAA ATTCAACATG CTGCTCTAT TAAAAATAC  
C

SEQ ID NO:1493: (Length of Sequence = 315 Nucleotides)

GACGGAGCGA GGGGACAGAG CCCAGGGATG GAGGCGGGAT GCGGGGGACA GAGCCAGGG ATGGAGGCGG GATGCGGGGG  
AGCAGCTGGT AATGTGCAGA GACTGGGAGA GGGCGGTGTC CAGGTGGAGA GTATTTCAAG GAAGAGAAGG ATTAACAGCG  
TCCACTGCCG CAGATGGGCC AANCNGAGAT GGGACTGGAA ACCAACCACT GCATTTAGCA TCCTGGGGNC TGCTNATAAC  
CTTGGTTTGA TGGCTCTCA AGAAGAGCCA NAACCTTNA AAGTTAGTTC AAGAGAGAAG GGGNGAAGAG ACACT

SEQ ID NO:1494: (Length of Sequence = 405 Nucleotides)

AAAAGTTGAC AAAACATAAA GTATCTCTAG ACAGCAAGGA AATAATTTCA CGAGATTGCT AAATTGATGT CAACACCTGC  
AGTCTAAAAT TTATACAGTT CAATATGTGT CATTTGATCA CTGGCATGTC AAATATAGAA CAGCTATGAC TTTGCTGGCC  
AGTAAATTAT CTAGCAGTGA AAATCACTTT TTAGGAGAGT CGCAATCAAA CATTTGTTAA CGTGGGAGCC TATAAAGATG  
CAATTCCTG AACACAGTG TCTAAGAAAA GTACATTGGG TCACTCTGAA CAGGTGGTAT GAACATTTGA TTTAACTGCA  
AGATCTNCG CINTTACGG GCTTTGTAC CATCGNATGA ATCTTACATC CGCTGATGAC TNAGAGCAAG CAGGGGCGAG  
CTGCC

SEQ ID NO:1495: (Length of Sequence = 364 Nucleotides)

CGTCTAATGA AGAGCTTCGA AACTTGCTT TGCTGGCCA TGTTGGGATTT GACAGCCTCC CTGACCAGCT GGTCAACAAG  
TCTACTTCTC AAGGATTCTG TTTCAACATC CTTTGTTGTTG GTGAGACAGG CATTTGGCAA TCCAGTTAA TGGACACTTT  
GTTCAACACC AAATTTGAAA GTGACCCAGC TACTCACAAT GAACCAAGTG TTOGGTTAAA AGCCAGAAGT TATGAGCTTC  
AGGAAAGCAA TGTACGGCTG AAGTTAACCA TTGTTGACAC CGTGGGATTT GGAGACCAGN TAAATAAAGA TGACAGCTAT  
AAGCCGNTAG TAGGNTATAT TGATGCCAG TTGAGGNCCT ACCT

SEQ ID NO:1496: (Length of Sequence = 370 Nucleotides)

GTCTCTTGA GCAAGGACCC AGTTATTCAT CTAAATCTC AGGGGAATCT CTGTAGAGAT GAAAAGCAGG AGAACCAAGG  
CAGCCTGGTC TCCTGGGTG ATGAAAAACA GACTAAGAGC AGGGACTTGC CTCCAGCTGA GGAGCTTCCA GAAAAGGAGC  
ATGGGAAGAT ATCGTGCCAC CTGAGAGAAG ACATTGCCCA GATTCTTACA TGTGCAGAAG CTGGTGAACA GGAGGCGAGG  
CTACAAAGAA AGCAGAAAAA TNCCACAGGA GGGAGGCGGC ACATCTNCCA TGAATNTGGA AAGAGTTTIN CTCAAAGCTC  
AGCCCTTAGT AAACACAGGA GNATNCACAC TGGTGAGAAA CCTACGGAT

SEQ ID NO:1497: (Length of Sequence = 376 Nucleotides)



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CACACACATA CAAATCTGT CCATTGCGG GAGNAATNG TATGTATGTN AGTTGGAGGG TATTAAAAAT CAGTTTTATT  
 CCAAAGATTT AAAACTAGAC ATGACTTAAA AACCAATTTCT GGAGCACTGC TTGCTGACAA TCTOGTAGTT CTCTGCTGCA  
 TTTGAGTGCA TTTTGTGGCC AGTCCATCAG GGGTACCAT GGGATTATAT TTGAATGTGT GGTGCATCCT TCCTGGATGA  
 AGGATGTGTG AGGGACCTTG AACCTCAGCT GTATTAACT GTAGCGCTC CAGTCAGTGC ACTAGATGAA ACTTTTAGAC  
 ANCCIGAATT CTGTGGGTC CTTCTTTTTT CCTTTATGTA GGCAGNCTNC AGCATG

SEQ ID NO:1498: (Length of Sequence = 281 Nucleotides)

TTTATAGGAC TTCTAATCTA ATTINCCAT AGTGTGACTA AAAGGGAGGC AATTTATTGG AACGGATTAT TCAAATGGNT  
 CCTTAAATAT TGCTATGTAT AATAAGCCAG TTATTATATC AGGACCATGT TCTCTGTAGG CCACTGTTTT NCTCTCTCAT  
 TCTCCAGTGG CGGCGGCGGG GAAGGCGGAG GCAGAGGCAG CAGCAGCCGC GCTGGCTGCA AATGAATGAN CCCCCAGCTT  
 GGGGGGAGGA CTCCAGGTGA GCCTCTGCCC TCGGGAGGCC C

SEQ ID NO:1499: (Length of Sequence = 395 Nucleotides)

TTTTATCACA CCCTGTTTTT CAAGGGTCTT GTTACGTACC ATTACCAATT CTGCTTAGCA ATGGCTTGTG AGATGGCATT  
 TATTCCTTCA GCATGTATTT TNATGTTCAC CTTCCTCTCA CCTAAATTC TCCCCACCC CAATAACAAT TAGTTGTCTT  
 ATTGTCATGT AGCCAGAGCA AAAAATGATT TCTTTCCCTT AAGTTACTAT TATTATAAAA GGGACGATAA ACACATGAGT  
 CATTATACCA CAAGTATAGT GTGGAAAGGA CTCTAAACAT AGGCTCACTG AAGAAGGTGG CATTTGGGCC AGGGCTCAAA  
 ATAAGGCAGA TTCAGATTG AACTGAATAG ATGGAGGAGT CATTTCAAAC AGAAGGAATG NCATAACATG TGGAG

SEQ ID NO:1500: (Length of Sequence = 272 Nucleotides)

CTGAGTAAAG GTTCCAGTC GGTCCCACTG GTCACAAATT TTNIGGCACC GATCATTGAC ATTCACAGCG TGTGATAGT  
 CCAGTTCAAT GAGCTCCTGC GCGATGGCTG CGATCTGCTC CAGCGGTCC TGGTGGCTG CCAGGTGCT CTGGAACGNC  
 TGTGCTTCC GCAGCAGAGC CGNACCTCT NINAGCGAG CCGACTGTA ATCTTNTGC AGCAAGATCT GCTCTTTGCC  
 ATAAGCCCAA GTCTGTGCG TTGAGGCCTT CT

SEQ ID NO:1501: (Length of Sequence = 394 Nucleotides)

TTTTTTTTCC TGGACCTGTC ACAAGCTTTA TTGTCCCGAG CACAGACTCG CCACACTTCA ACAATTCCAC TGTGGGGAGG  
 GGAGGGGTGA ATGAAGGACC TGGGGAGGGG ACATGGCTGA GCCACANCG GGGGCCACA CGGGGGGGC TGAGAGGCCC  
 ACGGAGGCAG AAGCTCCCAA GGAAACGCT TCTTGGACAC CGTCCACAG GAGCCCACT CCGGGGGCTC AGNTCCTCCC  
 GGCACCTCC TAGATGGACC TCTGGCTGTT AGTAGACTAA TGGTGGCCC TACCGATGG GCAGAGCTGC CTGATTTTTG  
 CTAGAAAGAG CTGTATTGTA NCTNGGTA GGNCACTAAA GCATGTTCT AGACGGCTGT TAATAGAACT NCAT

SEQ ID NO:1502: (Length of Sequence = 373 Nucleotides)

GAAACAAGGC ATAATGTGT CACAGAATCA GAGATCCAGT CTCACTTTC CACAAATCTC CAAATCTCCA GTCTATCTT  
 GTGTGCTCTA ATGGTTTGGT TCAATCCCTT TCCAATCTT GTTTTCAAAG CATGGGGCT GAGTGTCTC CACTCCTCT  
 AAGAAAGGAG CTTGGGTGGA AGGGACCATG CTGACCTCT CCATCAGAGG GCTCTTCCAG TAGTATTCTC GGATGCAACC  
 TCCATTTCTC AGTTACCAAT ATTTCTGTG TCAGCTTGT CCTTCTGNN GGGATGCACA GTGATCCGGG CCACCACTGT  
 TGTGTCTG TGCTCTGCT CTTTCTATG GTTTCAGNT ATTTCTGGG GTT

SEQ ID NO:1503: (Length of Sequence = 265 Nucleotides)

GNCAACAGGC CAGTNITTAA AGAGGGTCAA GTGGAGGTGC ATATTCCAGA GAATGCTCCC GTAGGTACCT CTGTAATTCA  
 GCTCCATGCC ACTGATGCAG ATATAGGCAG TAATGCTGAA ATCCGGTACA TTTTGGTGC CCAGGTGCCC CCTGCAACCA

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AAAGACTCTT TGCTTTAAAT AATACTACTG GGCTGATTAC ANITCAGAGG TCCTNNGATA GAGAGGAGAC AGCCATTAC  
AAAGTGNAG TGCTGGCTAG TGACGG

SEQ ID NO:1504: (Length of Sequence = 311 Nucleotides)

ACTGGATGGA TGTTTGATCT GTGTGGTCA TGAAGTTGTT TTTTITTTTT TTAAGAAAGAA AACCATGATC AACAAAGCTTT  
GCCACGAATT TAAGAGTTTT ATCAAGATAT ATCAATACA GCATGGGATT GGGAAAGTTA ACTAAAGGTA TTTGAGCTTG  
CACTGGATCT TGAAAGGTAG AAAAAGGGAG CAGGAGGAAA CTCATCCAGG TAAGAAAAAT AGACTGTNCA AGATGGGCAT  
GAGAAACAGT GAGGTCCCN GCTGGAGGTG GGTGCTAGTC ATGTTGAGCA CTNCTGGCAG GAGAGGTTTT T

SEQ ID NO:1505: (Length of Sequence = 363 Nucleotides)

CCACTCATGG CAGAAGGGAA GGGGAGCTAG TGTGTGCAGA AATTGTATGG TGAGAGAGAA GAAACAAGAG AGAGGGAAGG  
GAGATAGCAG GCTCTTTTCA ACAACAGCT CTCATGGGAA ATCATAGAGT GAGAACTCAT TCACTACCAT GAGAATGGCA  
CTAGGCCATT AATGAGGGAT TCGCCCTAT GACCCAAATA CCTCCCATTA AGCTCTACCT CCAACACTGG AGATCACACA  
TCANCATAAA ATTTGGAGGG GTCGAATATC CAAACNTAG CAACTTGGAA CCACCAGAAG CTGGAAGAGG CAAGGAAAGA  
TTTTINTCTA GAGGCTTCAG AATAAGGTAT TGCAATTCTG AAA

SEQ ID NO:1506: (Length of Sequence = 177 Nucleotides)

CGGACAGAGC AGGGCAGAAA AATGAGGGAA GGATGACAGA AGCTCATCAG AAAGCCAGTA ATACATAAGA TTAGTTTTNT  
CAGCAAAC TNGTAACTT TGACGTAAA AGACAAATAT TTTGATCTCT CATTCCCACT CTCAAAAGG TTTCTAGTTC  
ATATTGTTTT GCTAAAA

SEQ ID NO:1507: (Length of Sequence = 345 Nucleotides)

CTTGCTTGAT TTCCCTGT GTGTCAGAGA ATGTGCACAT TGAAAGAGAG GGAGCTCTCC ATCACCAGA GAGCCCCAAA  
ATAGCCCAAC TGATCATAGC CGTGTAAAA ATATTCATGG ATGTAAGGAA AGATCCTTC CCACTCTGAT GTCCTTGAC  
TTGTGATTG CTAATTTGA GAAGCCATCA CTTACACAAC CTGTTTTATA GACAAATCCT TCCAGTTTCA GAAGAAAAAA  
TGTCATCTAT CTCACCTCC ATCTTTTTT CAACTTCGA TAGATGAGAA GAAATGGTG AAATAAATTT TTTAGAATCA  
GTTTTGCAAG ATTGGTTTC AAGGA

SEQ ID NO:1508: (Length of Sequence = 326 Nucleotides)

AGTTGGATT CAGCTACTCA GAGTAATTGG AAAAGGCCAC AGCCTGGTGG GCTTCACAGC TTTACAGAGC CTGGTAGGGG  
ATGGCTAACA GGTTCNCTG CCAGGAGACA AGTGGCAGAC CCAGGTGTGA AACTTTTACA GGTCCACCA AGCCTTTCTT  
ATGGAGCACA GAGCATAAGG ACAACTTCTG CAGAAATGGA ATGGGGTACT TGAACCAAA AATACATACA CCTCCTTTCC  
CACCTGCCCT CAGCTTAGTA GCCCATAGTC CTCCTTGTC CTCACACTGA GCCAGGGCCT GNCCTAGATG ATGAAATGCA  
TGGCCT

SEQ ID NO:1509: (Length of Sequence = 329 Nucleotides)

AGTATGGGTC CCTTGGTACT ACTCAAGGTT TACAATATG CATTAAACAC ATTGAAAAAT ACACGAGAAC CTTGAGGGAT  
CACATTTTAC TGCAATATGT GATTTCCTGG TGAGACTCCT TGTGCAGAGA TGATTAGCTC ACAGAGCGTT GTAAGCACGT  
ATCGCAACA CCTGAGCATG CCGCAATGGC AACAGGAGGT ATCTTCACAA TTATGATGGT AGTACAGTAT GTACTGCAGT  
TGTTTACACA GTTATGATT AGTACTACAT CTTTACANIT GNTATTTC TINTATTIT GAATGGTATG TACTGTCTGT  
GTGTACATA

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SEQ ID NO:1510: (Length of Sequence = 247 Nucleotides)

TAGGAAAGAG TAAGANCITC TTINCAGGCT GGAGGTGCTC GTATGGTGGG ACAGGAAAGG GGAAAAGAGA AAGGGGCAAC  
ATGGCAGACA TACCACGGTT CCTACAGAGA TTAGGGGCAG CCTGGGCGG GGAAGTACAC AGGGCAGAGA GCTGACTCTC  
AGGCCAGGAA GGAGTTTAGC TCTNACCCAT CCTCANGGAC CACGGCTCTC CCCAGCCTC AGCTGACACA CACACAAAGG  
AGCGTTT

SEQ ID NO:1511: (Length of Sequence = 369 Nucleotides)

CCACTTGCTC CTTTATTAACT TGTCCTTCTT GTAGTGIGTA TTTGGGATCC ACTGGGAATC ATAGAAAGGA ATCAGTGCTA  
GGTCTGTGTG GGATTCACAC CTGAGGGATG TGGCTTTGGC TTCTCTATCA ACCTTTCTGT TCCCTGTGTC TATAGGAGTT  
AAGTCCCTTT NATGCCCCCT ACAGTGGATT ATAGCTATGG CCTGTGGCAG GTGTATTGTT TACAATAGCT GAAGAATTTT  
AGGCCCATGC TTTATGGGGG AGGGTTTINC TAGCTAGTAG TCCCCTTCTT TTCTAGATTG CAGCATAAGC GTGAACCNCC  
AAGGAATGCC ATATTTTAGA ATCCTGATAT AGGATGGTTA AGGCTTTT

SEQ ID NO:1512: (Length of Sequence = 236 Nucleotides)

ATGCATTAAG AAAAGACAGC CAAATGACAG ACTGATAAAA TATTTTCATT ACAAATTTG TTGAGAACTA CCGTGTGACG  
TAAATGAAGT TTCTATTACA CATGTACTAA CAGAGACTTT TCATTACATA TTCTAGGATA TATTTAAAT ATATGTATAT  
TTTGATATTA AGGAATATA TTTGTGTGTC ATTTTACAAT GTGTAACAC ATATATATTA NGGCCTTCC AATAAA

SEQ ID NO:1513: (Length of Sequence = 408 Nucleotides)

CATTAATATT CTCAGTGTG GAAATATTT NATATTGCCA AGACCATAAT GTGAGGNGTG CAGCTGCATA ANTCCCTGAG  
AGAAGATTAG TGGGCTAGC ACCTTACAAG GAAAGACAAG CTGTGTGGCT GGGCCCAAGG ACAGTCAAAT GTCTGCCTGA  
CAATCTCCAC ACAGAAGGGT TGCTCAGATC ACTTAGGACA CCCAGAAAGA GCTCACAAG GGCAACAAC CTAAGGCTGN  
TATTCTCCAT CTAGCGGTAC TTACCTGGGA ACTGAGTGGC AGTGGACAGG AAGCAGGGCC TGGGCTAGGG AGACCTTCAG  
GAGGAANGGG GACCAAGAA GTTAGAAGTC CATTCAATCA TATACTCATT CATTACAGCA ACATGCGCTT GACACCTTCT  
GTTATGCT

SEQ ID NO:1514: (Length of Sequence = 359 Nucleotides)

TINNCCAGGC TGGTCTCAA CTCCTGGGCT CAAGINATCC GTCCACCTTG GCTTCCCAA GINTAGGAT TACAGGCATG  
AGCCACTGIN OCTGGCTAGA AAATNINITT TAAAAGINA GGATGTAGAA TTNCTAGCT ATGTAGGCAA GGCAGGAGGA  
GAGGGGCCCA GTTGGGAAGC ATAGCCACA AGAGTATGAG GGCTGANCC AGGATGGTGG CAACAGGGAT GGAGAGGAAG  
GGTGCCAGG GCATGGTGGC TCACACCTTA TAATCTAGC ACTTTGAGAG GCTGAGGGAG GAGGATCATT TINAGCCAA  
AAGTTAGAGA CCAGCCTGGG GNAACATAGT TAAGGACAC

SEQ ID NO:1515: (Length of Sequence = 343 Nucleotides)

GAGCCCTTG ATGGCAAGAN CTGACCTTC CATCTGGAG AAGAGGAGAC CAATTINATA TTATGGAGGC AGAATATACA  
GGACTGTGTG ACTAATTCGA CATGTGTGTC CATGGAGCTT GAAGGGGACA GAACACAGG TGCAAACTG GTGTAGGTAG  
TGCTGGCCAT TGCTCAGAAC TTTGTGTGAG TTGAGCCAG GCTCTGGTT GCAGGACTCG TGAATGGAGC AGTTCTGAGA  
ACCACCTTT TGCTAAGGGA GCTINGGAGC CACATGGCTG CTCCTTCAC ACTGGGTAAC AGTGTAGTAT CCTGTGAGAG  
AATAAACGTA TTCATTAAA AAG

SEQ ID NO:1516: (Length of Sequence = 380 Nucleotides)

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TTTTGCCTTA TTCTATCCGA TTTTTCCTT AAGCTTCTAC CTGGNATTIN CCTTTGGAAA AGTCTCTGAG GTTCCACCAA  
 AATATGGAAC TINATTTTGG ACACCTTTGAC GAAAGAGATA AGACATCCAG GAACATGCGA GGCTCCCGGA TGAATGNNIT  
 GCCTAGCCCC ACTCACAGCG CCCACTGTAG CTTCIACCGA ACCAGAACCT TGCAGGCACT GAGGTAATGA GAAGAAAGCC  
 AAGAAGGTAC GTTTCIACCG CAATGGGGAC CGCTACTTCA AGGGGATTGT GTACGCTGTG TCCTCTGACC GTTTCGCGAG  
 CTTTNACGCC TTGCTGGCTG ANCTGACGNG ATCTCINTCT GACACATCA ACCTGCCTCA

SEQ ID NO:1517: (Length of Sequence = 411 Nucleotides)

TGAGCAAAC ACAGAGGACT GCACCTCTAG TGGCTCGTAA TGAGAAAGAA GATGGTCTCA AACCTGAGAA AGATAATGTG  
 GAGTGGACCT CTGTTGTCTC AGTATTAAAC GTCCCTTCTA GGAAGTAGGT AGCATTTCG AAAATAGAGT GAAGCAATTG  
 ACTGATGGAT TTAATCTTTA AACTGCTTAG GTAAACATCA ATCTGTAATG AGCTTAATAC TCTTAACTAG GTGCTATTTT  
 NCATGTGTG TACTTTGCCA GTGATAAAGG ATTACGAAAA ATTCTTTACC AGAGGAAAAA AAAAAATTGA ATGACCTTTC  
 TTGGGAAGGT GGTCCCTTGT TTGTGATCAA ACTTTGACAA GAAGTGGTAA TTAATTTCT CTAAGGAATT NACCGTCTC  
 ATAGTGTGT T

SEQ ID NO:1518: (Length of Sequence = 388 Nucleotides)

GGTGGCAGC TTCTCTCTGC AGCTGCTCTC CCATCATCTG GCTGAATATG GGGCTTINAT GGGCCTCAGG GGAGGAAGTG  
 TGTGNAAT GGTCCGTGG CAAACATGGG CGGGCTGGA AAAGGCACCA CAAGTTCCCA CCCAGTCAG TAGGATCAGC  
 AGTCTGACAC CCAGGCTTCA GSCCCTCCCC GACTTGAAGG TGGTCTTCA CCAAGGACTC ACCACTCTCT GCCAGGAGC  
 TTGTTGCTT CCTGCTGCCA TTATGGTGC CCAGGCTGTT TGTNCCAAGG AGTGTCTGTG GGCCAGCCT GAGCTGCCCT  
 CAGCACCCCC TTGGCCTCTT TTCTGTCCTC ATTGGTGGCC AAAGTCCGCA GCAGGCTGAA GTGGCAGG

SEQ ID NO:1519: (Length of Sequence = 358 Nucleotides)

TTGGTTAAGA CCAAAGTCAG ATCACTCCCT CTTAGCTCCA AACCTGCAGT GGCTCCCAAT TCINTCAGCA TACAAACCCA  
 GATCTCAGG CTGCCATTIN TGGGCTGAAT CCTGTCCCTG CTGTCTGATC CCACCAGACA TAATGGAGGC CTGAGGTTC  
 CTGAACACTC CTAGTTTACG CTTAAGTTAA GTATTTCAC ATGCTGGTTC CTATGCCTGA GATAATGTT CACATTINAT  
 CCCATTGCTT GCCAGAAATA GAAACCTTC CACATAATTN CAAACAGAG TTTACANCAC AGAGCTTTGG GTGACTGCAG  
 GCCTCCAAGA ANGNAGGCA GAAGGGGCAC TGAAGAGT

SEQ ID NO:1520: (Length of Sequence = 379 Nucleotides)

CCAGAGTTAA ATATGCCAG GCTGAAAGAA GGTTGATAAT GTATGGNCGT NCTTATACCA AATGATTCTT TTGGAATTTA  
 AACAAATATG TTTAGTATTT TATTCCTAAT TTAGGAAGAA AAAGCAACTA AAGTTGTCCT GACATTGTAC ACAGATGAGT  
 AGCACGTAACT TTTTATTTAG TAAGCCCCAT AGGATAGTAN GGNATAAAG TTGTTAGTGA GCAAAACAGG AGTATCCTGC  
 CATTGCTTT AATTCTNCTT GTGATAGTTT TGAGGGTACA ATAATTCCTG TGTGCGTGT ACTCAAGCAA ACCAGAAAGT  
 GTCTTTTGT AATACGCATT TTGGGCCTCA TCCTCATGGA GGTCCCGTT GTTTGTGG

SEQ ID NO:1521: (Length of Sequence = 339 Nucleotides)

GGGACAGGAA GCCTCTTGGG TTGACTCAG ACTCAGGAGG TGACTCAAGC CTCAAGCTCA GAAGCCCTCT GTNACCATCT  
 GTTACTCAG AAGCATGCC ACCATCCCAT GCAGTGCCT TCCAGGCACT GTCTGTAGC AGACGGAGTT CAGGCTTTGG  
 AAGTAGACAG ACCTGGGTTT AAATCACAGC TCCGCTCTT CCGCTGAAG CTCCATAACC TAGGATAAAG TCGCTAAGCC  
 TNCCTAAGT TCAGATTCT TACCTCTAAG GTGAANGGAT TGGATTCCAC TTTACTTCCC CCTTTTCCC TTTATGACT  
 CTGCATCCTC NTTTGCTTG

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SEQ ID NO:1522: (Length of Sequence = 405 Nucleotides)

GTGAATTICA AGCAATTGTT AATGGGGACC AACAGGGCTG CATTAGAAAC ACCACTTTNN ACTGATCTCT CCCCCACATA  
 TTTTAAATTT GTCTTGCTTT GTTTATTTTG GTTATGCAAG TCCTTTCTCT TCATGAAACA AGTGTAAAGC TCTAAGGCTA  
 AAATAATAGT TATTTTGTG GGGCCCAAT AGCTACTTTT GAATTTCTTT CTTTAGTATA TCTCAAATCT GGGGAACATG  
 GAACTTGAAG ACTCCTAACC ATGAAGCATT TGGAAAAATA CATATCATTC ACTTTTCACA GAACCATTTT CTTAAAAATA  
 AGGGGGCAAT ATCCAGATTC ACATGCATGT TCATAAATAA AGCTTTGGTT TTAACACAA TCCACACCAG CAATTATTTT  
 CAGCT

SEQ ID NO:1523: (Length of Sequence = 284 Nucleotides)

AGNTCACAGA ACTCCAATTC TTTATTAATC ACAGCTTGCT CACAATGACA TACAGGAAAA TAGCACTAAT GAAGNGTAAA  
 TATGCAGGCA GCAACCTTCA GGAGTTGGGA GTTGGGGAGA AACGNTTCA AAACCTGCGAT AGGTACTTAT GGTGGGTATC  
 TGGTGATCT NAGTTGGCAC AAATGCCCTG CCTAGCCCC TTAAGTCGT CACTTTCACA GATGGNGTGT TTTGTGTGTG  
 GTGTTGTTAG TAGGCAGGAT TGCTTACAC TGGGAAGAA AGAC

SEQ ID NO:1524: (Length of Sequence = 299 Nucleotides)

GTGCTGTGAC GTGACAGTTT TGTCTGATCA CATTITAGGA AGATGATGCT GTTCTTNCIT CTTAAGTATT TATTTINATC  
 AGTCAAGTGA TAGGAAGTTC AATTCAAGT ACAAGACATT TGGATCAAGA AGTGACTATT ATTATTTTAT TTNAGATGGA  
 GTCTTGCTCT GTTGCCCAAG CTGGAGTGCA GTGGTGTGAT CTCAGCTCAC TGCAACTTCC TCCTCTGGG TTCAAGCAAT  
 TCNCTGCT CAGACTCCG AGTAGCTGA ATTTACAGGC ACCCACGGG ACCAGTGAA

SEQ ID NO:1525: (Length of Sequence = 398 Nucleotides)

GCCATGAAG CAGCTCTGCT GGATGGAGT CTCATGCCCTG CAGCTCTCCC ATACTGGAGT TGCATGCTGG TGGTCTTACA  
 GTGCTGGTGT CTGGGCAGTG GCTCACTCC CATGGCTCCA GGAGGCATTG CCTGGTGAG GGATCTCTGT GGTGGCTCTG  
 TCCCTGAC AAGTTTCTGC CTGGGCTTCC AGGCTGTCCA TGATATCCTT TGAAATCTAA TTGGAGGCTG GCATGACCCC  
 ATGGCTTCCA CACTCTGTGC ACCTGCAGAA TCAGACCAT GTGGACACTG CCAAGACCTA CCTACCACTT GTGCTCTCTG  
 GAGCAGCAGC ACAAGCTACA TCTGGGGCTG CTGAGCCAT GGCTGGGGCT NCCAAGGAGC AGAGTCTGA GGGTGGCC

SEQ ID NO:1526: (Length of Sequence = 318 Nucleotides)

GTCTCTCTCT ACTGCACCAT GATGCCTTTA AAAAGAATCT AGGGGCTGGG CACAGTGGCT CAGGCCNTA ACCAGCACT  
 TTGGGAGGAG TTCACTGAG CTCAGGAGCT CGAGACCAGC CTAGGCAACA TAGTGAGACC CCGTNTCCA CTAAAAATGA  
 AAGCAAATTA GCTGGGTATG GTGGTCCATG TCTGTACTGT GGTCTAAGCT ACTGGGAAG TTGAAGCAGG AGGTCACCT  
 GAGCCAGAA GGTCAAGSCT GTAGTGAGCC ATGATNTGTC CACTGCATTC CAGCCTGGC AACACAGTNA GACCTGT

SEQ ID NO:1527: (Length of Sequence = 313 Nucleotides)

TTGGCTAGAA GGGAGGCTGG AGCCTTTCAT GGTGGCTTTT GAATGCCATG GTGAATAGTT TGTCTTTAT TTGNTATGA  
 ATAGCAATTT GTACACTTCT GAGCTATTAG AGTGAAATGA TTAAGCCTGT GGTTTAGGAA GAAAGAGCCT ATTAGGGAGA  
 TAAATCTTTC CCTAGTTGTA GGAAGGGTTG GAACAGTATG ATATGGAGAG GGTAGTAAATG AATGANGGAA TNGAAAACGA  
 GAATAATTTT AATGATACTG GAGGTGAGT ATACAAGTTG NGCAGTAGGT TTATGTCTAG GAAGATAAGA AGT

SEQ ID NO:1528: (Length of Sequence = 405 Nucleotides)

GCGTGGCTA CCGCCACGC CACGCCACC GCGCCGAGT GCTGTCTCTA TGGGAGGAG GAGGAGGAG AGCGGAGTC  
 AGGACACAA GTACATAAAT AAAGGATAAA ATATTTTATG AAACAAATCT TCAATCAAGT ATAACATTTT GATGCTTGGC

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ATCTAGACTC CCTGTGCCC TCACTATGCC AGCGGAAC TGATCATAG CCAAAGAATT TGTGAAGTTT GGGCTTGCAA  
 CTGTGATGAA GAGATGAAGA AAATTCGTCA AGTTATCCGA AAATATAATT ACGTTGCTAT GGACACCGAG TTTCCAGGTG  
 TGGTTGCAAG ACCCATTGGA GAATTCAGGA GCAATNCTGA CTATCAATAC CAACTATTTC GGTGTAATGT AGACTTGTTA  
 AAGAT

SEQ ID NO:1529: (Length of Sequence = 241 Nucleotides)

GAAGGAGAAA CACTTCTTGC CTCCATAATT CAGACAGTAA ACTGATCGCT GAGATTGAAG TTTGCTTGT TCTGGGGAA  
 GCTTNAAGAT CCTCGTGGGA CCACCATCCC CTGCTCAGTC CTCCCTGGAA GGGGGCACTG GCTGGGTATG AGCCGCGTCA  
 CCGTTGGGTT TGTAACTTTN TGGATGGTGC CTGNTTTC CTTGGGGCTG GCTGAGGAAA GGGGAGGCGG TAGGNGTCTG  
 C

SEQ ID NO:1530: (Length of Sequence = 356 Nucleotides)

GGTCTCATGC AAGGGTTTCC CATGCTGTGA AGTGTGTTTG TAATCCACA TGTATCAGGT GCCTGGCTGC TCTGGGACTT  
 GCAGTAATTG TCTCTTGTIT GTTTCAGGTG TGATCCCTG GCGCCGTTTG TTGTGGGGG AGAAGACTTA GACCCTTTGT  
 GGTGAGTACT GCTGGGGAGG TGGCAGCAAC ACAACTTGCT TTNTGGCTT TINAGCCCCA GCTCATCTTC TAATTNAGA  
 GTTTTCGGTC AGTCTCTTCC TTTGGGNGTN GAGGAGGCAG TTGTTTGCTG AGCAGCTGAG AAAGCACTGC CACATACGCT  
 GGCCCCCTCA CACCTAGAGC GGTGCAGGAG AGCACT

SEQ ID NO:1531: (Length of Sequence = 379 Nucleotides)

CCAACAGATG CTGCTACGTT TCCTTCAAAA TTGTTAAACA TCTCTTGGG AGAAGCTGC TTAGTTATAT CCAGCGATTG  
 GTTCAAATCC ACGTTGATAC AATGAAGGGT GGGGTATCTA GCAGGATGTC TAGTTCAAGC ACTGGGTGAA AAACAACCAG  
 AGCTGCAGAT AAGTGAACGA GATGTTCTCT GTGTTGAGAT TGCTGGACTT TGTCATGATC TCGGTCATGG GCCATTTTCT  
 CACATGTTTG ATGGACGATT TTATTCACCT TGCTCGCCCG GAGGTGAAAT GGACGCATGA ACAAGGCTCA GTTATGATGT  
 TTGAGCACCT TATTTAATTC TAATGGGATT AAGCCTGTCA TGAACAATA TGGGTCTCA

SEQ ID NO:1532: (Length of Sequence = 307 Nucleotides)

GATAAACTTG AGCCACCAAG AAGTGGACTC TGCCTAGGAA GACAGTTTGC TGAAGTTAGA AAGTACTGGT CTAGGAACCA  
 GAAACCTGA TTCTNCCAA GAGTTAGAAT TGINAGINAG TTCTTNTGG TTTTINAGTT CTTATCTGT AAAATAATTA  
 CCCAGTTCAA TTGGATAATC TCTATGATCC CTCCACATT CTGCATCTT GGATATCTAC TGTTCTAAA TATTTTGGCA  
 TTCTTATAA AGCCCTTTCA CATTNCTTT ATTATTTTC CTTACAAGA ATTCTGAAA TAGGATA

SEQ ID NO:1533: (Length of Sequence = 337 Nucleotides)

ATGGCTTTAT TTGCTGATTG AGAAGTGGTC CAGCCGTGGG CTAGCAGTCA TTTACATATC AGTGACCAA TGCAAACATA  
 CCGTACTAA CAGTGCTTTG GTCCATGACA TACCTTTTGG ACAGCCCAA GCTGAAACGT CAACTCTATC TGGGGTACT  
 TGCTTATACA AAGATGTTAC TCTAGCAATT GTTGCTTGAG GGCAAGACCN GATGATTGTC ACTAGTAGGA AGAAAGCAGA  
 AGTGATGCAG CTTACACTGC ATAGTCCCTA CCTTNTGGA TTAAATGGAA AAGTTGCTCA AACATAAACT TGTCTTAAC  
 AAAGGTGGGT AAGANTC

SEQ ID NO:1534: (Length of Sequence = 317 Nucleotides)

ATGGGCATGT GGGTACTACG TTAAATATT TAATTATTT AAAATAAAA TAGGAAAGAT AAAATAGCTT AAAGTGATT  
 GATGCTCTGA ATAACCTTAT GAGTGAATAG ATACTGAAAT TTGAAGTCAG TGTTTTCAC AACAAATCAA GATTTGGAC  
 TGGACTTACT GGGTTGGGA CTCTTAGGG ATAACGTGG TGCTATGAGC ATGCTGGAAA GATGAGAAGC AAAAGCCTGG

AATTGGGAGT CCTGTACTGT CTTTAGGGTA TGCAAAGAGG CTCCTTCTTT TCTAGGTGTT CATCASTACA ATATGAC

SEQ ID NO:1535: (Length of Sequence = 323 Nucleotides)

ATATTACATT GATGTCAGTC TTAAAGATG GAGTAGGACT TINCAGGCAG CAACGAAAGG GAAGGACATT TCAGAAGCAG  
AAATACCAAT TGTTAAGGGA TGACAGCCAA GAAATATTAA AGCATATTTG GAAAGTATTG AAAATCTCTG TGTTGGCTAGA  
ACTTTAGATG AAGAATCAGA TACATCTGGA GAAGGAGATT NAACNGATG ATCATAAAGA ACATTTTATT TAGGCCATGG  
TAAGGCTTGG GCACTNIGGA GCCCATGAAG GTTTTGTGGAC AAGGGAGTTT CCTTAGGGAG GAGTATNAAG CCATAAACCA  
AAT

SEQ ID NO:1536: (Length of Sequence = 305 Nucleotides)

AACCACATTT TACTGCATC TNCCTCACGC TGGATTCCAA CATGCTGGCC CGGAGGGTGG CTGGCTGGAA GCAACTCCAA  
CAGGTTTTTC CCTTCCCGT CATGTACATT ATTATTTTTT GATCTACTC ACTGTCCCAA GTCCAGAGGC AGTTACAAAA  
AACACTCTTG ATGCAAACCG TGAGTGGCTA CAACACCGG ATGGGGGTGG GCGCGATTCC CACAACAGGG AGTGAATCC  
GGGGAAGATG ATATATAGGG GCAAGACGGC CCTTACTTT GCTAAGAGTA TATGGGAGCT CAAAA

SEQ ID NO:1537: (Length of Sequence = 279 Nucleotides)

GGTGGCAGCG GCGGCGGGC GACTGAAGCG CGGAAAAGC TGAGGCGGCA ACGTGGGGA CGGCTGCNOG GGAAGGCTCT  
GTAGGAAGGA ACTTGGTTC CCTTCCCTCA GCTTCCGCC CAAAAGATT AGAATGGACA GTTTAGAAGA ACCTCAGAAA  
AAAGTCTTA AGGCTCGAAA AACGATGAGA GTNAGTATC GTCAGCAACT TGAAGCAGTG TACAAGGTCA AAGAAGAACT  
NTTGAAACT TGATGCAAG CTGTTAAATN GCAACCATG

SEQ ID NO:1538: (Length of Sequence = 310 Nucleotides)

ATATTTCCTT CTGCTCTGAC TCCGGAAGAA CTGCACTGT TGCTTAGGCT GATAATCCCC GAAAAAAGT AACAAATGCA  
ATTNTACCCC CCACCCCAT ATACAGCCCT CATATATATA TATGAGAGAG AGAGAGGAAA AGATCATGAG ACATGTCTTC  
TAGGGAAAAA AAATCTAAC TTCCCTAGCC ACTGTAGTCA TTGAAACCT GAGTTAGACT ATGAGTTAGG AAGTATTTTC  
ATAGAGTTCA ATTAATATAT TTCTGCTCTA TGCATGGATG CTAACAGGTT TAAGGAAACA CAAAAGCCAA

SEQ ID NO:1539: (Length of Sequence = 267 Nucleotides)

GAGATTTTAC TTTGTAATCG AGTAATTTAG CCACACTCTT GTGAGGGAAC AAGCCAGAGC CAGGACCGCA TATTACCCGG  
TAAAGCTGCA GAGAAGACTT GAGACTGTGA AGATTGNC CNGCTGCAGT CCGTGGTCA GTAACATCTG CAACATTATA  
CAGCCAGCAG ATCAGCTCTT CCAGCTGACA GCAAAATGTC TTCACACATT GCACCACTGA TTCITTTCCC TGINTCTCTC  
CTTCTCTGGG GAAGCTGCCC TTNAACA

SEQ ID NO:1540: (Length of Sequence = 354 Nucleotides)

ATTTATTCAG ATGAAAAAAA ATCAAGGCTT AATTTAAGTA ACTGTGCAA GGTCAAGGAG TTGACAAGTG GCTGAGCTGG  
AGTTCAGCAT CTCAGACATC TTCTTTGAA TCCTTGCTT CTTGTGAAT TTCAGATGAC GGAGCATGAC GGCTGCATGA  
TTATGGGGTC ACCGGGCTG TCCTGGGCT GAGGGACCAA GGATCAGAAA GGGCAAGAAC CACTGCTC AGCTAGTGAA  
AGTGCAATG GACATGATC CTGTTCCGG GNTTAACCTT CCGCTTGGCC TTAAAGAGGG NTCTTGAAA TCACCAAGG  
GGCCTAGAG GAAGCAAGCA AACTNCTTGG AACT

SEQ ID NO:1541: (Length of Sequence = 403 Nucleotides)

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GTCATGTTAT ATCAGGTAAA ACCTGTCTAA GGAGAATAGA CAGTAGTTAG TTCAACTTAC TCATTACGTA TTAGGAAGAT  
 TAACCTGGTT ATCATTGTTT TATACATATA TATATGNAAT ATATATGAGT ATTGCTATAA ATATAATACT TTTACCTTGT  
 TTATGTATTT ACTCAATATT CTCCTTTTCC TCTAAAATAA TCTGAAGTGA CTATTATCAA TAAGTTTACT ATGCCAAAAT  
 TCATTAATTG CCTTTCACIT AACITTTGGG GCCATAATAA ATAATAAAAT GTATTGCCAT AACATTAATA AACTACCTTA  
 CAAAACCACC AATTAAAATC AAACAACCAA AAAGGTGTTA TTTACATCTG NNCACATAAA TCTACTAAAA ATACAGGGTT  
 CAT

SEQ ID NO:1542: (Length of Sequence = 333 Nucleotides)

CTGGTACATG ANTTTATAAA AACATGTCAC GCCCGCTCT GTGGCTCATG CTTGTAATCC CAGCACTTTG GAAGGCCGAG  
 GCGGGCGGNT CACAAGGTCA GGAGATCGAG ACCATCCTGG CTAAAACGGT GAAACCCGTC TCTACTAAAA ATACAAAAA  
 TTAGCCGGGC GTGGTGGTGG GCGCCTGTAG TCCAGCTAC TCTGGAAGCT GAGGCAGGAG AATGGCATGA ACCNGAAGG  
 CGGAGTTTTC AGTGAGCAGA GATCATGCCA CTGCACINCA GCCTGGGTGA CAGAGCAGAG CGGGGACTCC GGAGCAATGG  
 GNAGTACAAT CCT

SEQ ID NO:1543: (Length of Sequence = 329 Nucleotides)

CCCTGATAA ACCTATCAGA TTCTGTGAGA CTTATTCATT GTCATTAAAGA ATAGCAGGGG AAAGACTGGC CCCCATGATT  
 CAATTACCTC CCCCCTGCATC CTTCCACAA CATGTGGGAA TTGTGGGAGA TACAATTCAA GTTGAAATTT GGGAGGCGGC  
 ACAGCTGAAC CATATCAGTC TGTATTATCT CTCNTTTT CTGCTTTAAG NGACTATAG NAGGTGTTGT TTTACAGGNT  
 TATACATAGG TATTCTGAAA GATGGGGTTA TTTTCTGTT CANACTTTGA CTAAGTGGCT TCTTTGTCC CCTATGTGCC  
 AGAATAGCC

SEQ ID NO:1544: (Length of Sequence = 313 Nucleotides)

CGGAGATCCG TGATGTAACA AGGATTGANC GAATCGGTGC CCACTCCAC ATCCGGGGAC TGGGCTGGA CGATGCCTTG  
 GAGCCTCGGC AGGCTTCGCA AGGCATGGTG GGTCACTGG CGGCACGGC GCGGCTGGC GTGTGCTGG AGATGATCCG  
 GGAAGGGAAG ATTGCCGGTC GGGCAGTCT TATTGCTGGC CAGCCGGGCA CGGGGAAGAC GGCCATCGCC ATGGGCATGG  
 CGCAGGCCCT NGGCCCTGAC ACGCCATICA CAGCCATGCG CGGCAGTAA ATCTTCTCCC TGGAGATGAG CAA

SEQ ID NO:1545: (Length of Sequence = 384 Nucleotides)

CCCAAACCT GGAGCTAAGA ACTTCATCTC ACTTTTGACA CCCCAGCCC CAAAATATGG AAGCCCAGGA GAGCCAGGAG  
 AATTTATAGC AGAGGCTTAA AGAGAAAGTT ATGATTGTT TAAAGTAGAG AATAAGGTGA AAAATAAAC CTGGTACTCT  
 GTCGGAAGT CCTGGAAGTC TCCTTGCCCA ACCTCACTG GCCTGTGGC TCCTGINTCC TTGCTCTGGG ATGCCATGGT  
 GAATGTGAAA ACAGGGGAGG TTGTGTGTGG GGTGGAAT GGCTTNTGG TTGCAAGCG AGTCCTTTC TGAGCCAGC  
 CTGAGACCCA GCTTATGGC TTTATCCAGG TGAGAAAATN CTGGGACAT GTGTGAGG TTTA

SEQ ID NO:1546: (Length of Sequence = 345 Nucleotides)

TTTAAAGAAC AATGATTAG TGAAAATNCT CTCAGTTTTT TTAAATTGGT TCAGCAATTG ATTAATTACT GAATCTTGAC  
 CCTAACTTT TTAGTCTAGA AATGTGCTTG AGGAATACAG GCTGGAGATC AGCTTTTGA CATTGCATTG CCTCCTGGN  
 TCATATCCAT GTTGAATCA ATTTATAAAC TGCTTCTTA AGGCTTAAAA TGATGGTGAT CTACAGACAA GTGCCCTCCT  
 AGGCACAGG TTGCTGGAGA CTGATGCCG GCCATGGCT CTAAAGCGA ACACTGAAC CATGCAGAA ATGGTGGAAA  
 GTAGAGAAAT GAATAGAGG GGGAA

SEQ ID NO:1547: (Length of Sequence = 342 Nucleotides)



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GGAGGCTGAG GTGGGAGGNT CACTTGAGCC TGGGAGGTTG AGGCTGCAGT GAGCTGTGAC TGCACCACTA TACTACAGCC  
 TGGGAGACAG AGTGAGACCC TGTCTCATAT ATATATATAT ATATGTATGT ATATATATGT ATGTATATAT ATCTCTAATA  
 TATTAATATA TATCTAATAA ATGTATCTTA TATATAATAA ATATATCTAA TATATAATAT ATATATTNCC NAGAGAGGGA  
 GAGGCTCTTA GGAAATTATC TTCTTGCAAT TTATGTTATA TTATGCTATA TTGGGCTATT TCCTAAGAGC TCTATCGTAT  
 TATTTCCATT TATTTGTGAG GA

SEQ ID NO:1548: (Length of Sequence = 334 Nucleotides)

GGAAATAAAG GTGACATGAA CTAACIATTC AATCATGAAT GGTAGAAAAA AATGAAAATG TAACGAGATG GGATCOGGGT  
 CAAAGTCAGG GGAGGTATAG TTGAAGATAT TGAAGGAGTC ATTATGATAC CAAAGAAAAT GGAAAGAAGT GGTATCCAGA  
 TAGGTTATCC TTGGAGAGTA TCCNGGGATG TCTCTTTTCC TAAGACCTTA GAGAAGGAAA GGATGGCTGA TAATATAGGG  
 AAAAGTTGAC ATGGAAGGAT TAAATAATTT TTTTGAGGAA TTCACGTAAG GNATGATAAT CTGAATTTTC AGGGCTAGGC  
 TCAGAAGCAG GAAT

SEQ ID NO:1549: (Length of Sequence = 362 Nucleotides)

AGGATTCTGG GGGCTTAGAG AGGGCAGCCT GGAGAAGCCA GAGTTAAGCT CAGAACAAGA GGTGCAGGAA GAGCCACAGC  
 AGGGAAGGGA AGAGAGATCC CAGAGGAGGG GCAGAGTNTG GCAGGACAAG GGCCCTGCOG TACATGCTAT GCATGAAGGA  
 AAATCTTGAG ACTAAGACTC ATGAAAAGNT CAAAATAAT TATTTGIGT GGCCCTAGA AGACTNAAGA GACATTINCT  
 TCGCCATTG CCCAGGGCTG CCTGGGCAGG AGACAAAGGA ATNAAAAGTC CAGGGGGAAA GCAAAAATCT ATGGGCTTCT  
 GAACACATGC TTCCCGGAGC TCGTCINCAC AGCATCTTCA CC

SEQ ID NO:1550: (Length of Sequence = 328 Nucleotides)

GGACTAATTA ACTAAGAGG TTTGTACAG CAAAAGAAAC TGTCAACAGA GTAAACAGAC CTACAGAATG GGAGAAAATA  
 TTCACAACT ATGCACCCAA CAAAGCTCTA ATATCCAGAA TCTATAGAA ACTTAAACCA TTGAACAACC AAAAAACAA  
 CAACCCATT AAAAGTGGAC AAAAGTCATG AACTGACACT TCTCAAAAAA AAGACATACA AGCAGCCAAC AAGCATATAA  
 AAAATGCTTG ATATCATTAA TTATCAGATG AATGCAAATC AAAACCAACC AAGTCTTTTT CTCTGTCTA GGNATTTTA  
 TTTTAGGG

SEQ ID NO:1551: (Length of Sequence = 365 Nucleotides)

CAGGAATTTA CATGGGGAGA CCTACCTATG GCAGCTCTCG CCGTCGGGAT TACTATGACA GAGGATATGA TCGGGCTAT  
 GATGATCGG ACTACTATAG CAGATCATAC AGAGGAGGAG GTGGAGGAGG AGGAGGATGG AGAGCTGCC AAGACAGGGA  
 TCAGATTTAT AGAAGGCGGT CACCTTCTCC TTACTATAGT CGTGGAGGAT ACAGATCAGC TTCCAGATCT CGATCATACT  
 CACCTGCTCG CTATTAAAGC ATGAAGACTT TCTGAAACCT GCCCTAGAGC TGGGATATG TTTGTGGGGC AATATTTTN  
 ATTGTCCTT GTTAAAAAG TGAACAGTGC CTAGTGAAGT TAGGT

SEQ ID NO:1552: (Length of Sequence = 330 Nucleotides)

GATCCAAAAA AATTTACTGA AATAGCAAAA ACGTGGACTT TGGGATTTC TCTAACTGCT GCAAATTATA ACACAGAATT  
 GCTCAGTGT AATACTTGAN TTGTGGGGCC AAGTCTCTG GCTGCCCTAG TTCTCTTTTC TGGCATTTGA AAGCCCTTGA  
 GCTAGCTATG GAGCTAATCT TTGGACAGGC TTTTGGTTT CCAGGAATGT CATGCCTTTG AATTTCCAAT CTATATATAT  
 ACAGTGTGTG TGTATGATA NCTGTCTTT CACTGTAAGG CACCTNCACC CATCCCTTAT AGAAGGNGGC CACAAACAAT  
 CAAGCAATC

SEQ ID NO:1553: (Length of Sequence = 304 Nucleotides)

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CCCTTGTCCTC ACAGCCATTT AAAATCTTC TGAAGGGCCT CAGGGCACAA AGTGATCATT TGGGATCCTA AGTTAAAAAG  
 GAAATGCAAG AGTAGGNTAC TCCAATTCCA GAGTCTTTC AGGAGGCTAA TCCCAACAAG AGGGTAGCAT CAGAGAAGTG  
 GGCATTGGTC TTAGTGGTGG ATCATCAGGT AGACAAGTGA TAGTGTGTGT AACCCATCTG AAATTCATTT TACCGTCACC  
 ACTCTTACAA AGGACAGTTT ATTCCCAAGG ACAGTGCTGA CGGGGAGGGG GACAGGCAGG GAGT

SEQ ID NO:1554: (Length of Sequence = 309 Nucleotides)

TGTGTTACTG ACCATGTTTT TGAGAGTAGT GCCCCTAACC ACTTTGTCTC CACTTGCCATA GTGTAGTGAT TTTNAGGNT  
 CTGTATGTCA TATTATAACA GAACTGACTG TATATGGCTA TTTTATCCCA TAATCAAGCC AATTCTTCCA GAATATTACC  
 ATCAGTATTA CCACATACAT CCTCCCAAT CTTATTTCAA AGAATAAATA TATAGTCACT CATGGTTTTT AAGNAAACCC  
 AAAACTACTC AACCAAAACC TTGAGGAAGG TTTTCCAGG GNTTCTACC TTAATTATTC ATAATGATT

SEQ ID NO:1555: (Length of Sequence = 326 Nucleotides)

GTTTAAAAAC TGTCCAAATG TCATTTTAAT TTATGAAGGC ACCCAGAATA AGINCTAATC TCATACTGCC CCAATATATT  
 TNCIGAAGCC AATCTCTCT TTTATTAAIT TTTACTGAAA ATAGCACTTT TTTCTCCCC CTGATAGTAC TGGGTAATGT  
 TAGAATGTCC TCTAAAATC TTTGGACCTT ATTTACATTC TCAAGAGNIT TTTTAAAIT TACCAATAAG ATGTGCTATT  
 TGAGGAATTA GACTTTAGTT CAGTGTGACA TGGNTATGT CTGCTCATAT CATTATGTC TGAGNCTTTC ATTTTATTAA  
 TATGGG

SEQ ID NO:1556: (Length of Sequence = 375 Nucleotides)

CCCATCCCTG TTTAGGTGCT TTGCTCTCT TGAGGAGCCT CCAATGCTGC TGCTCCTATA CATGTCACAA TTTGAGACCC  
 AGCATGCTAG GAACTGCTGC CAGCGCTGG TTAAGCCAAT ACTAAATGGG GCCAAACAGG TGAACAGACA TTTCTCTTT  
 CTCCAAACCT CTGAAAAGA TTCTGCAACT CATCTCAG TAATTTGTTC CTAATTTAC TCTTAGGAAA TTGTCGTAA  
 AGTCTGATTA GGTAAAGTCC AATTCCCTGT AATTAGGATC CTCAGTGAAG AAAAATCTAC CCATCACCAC AATTTATTTT  
 CTTTTCTATA GCTCCAGCAT CAGTAATTGT ACCATTATTT TTGGCAGCTC TGGGG

SEQ ID NO:1557: (Length of Sequence = 306 Nucleotides)

AATTCGGAAG ACTATTCTTA TACATTAGAG TGAATTNAG ACTATCTCCA TCATTCTCCA GCCATTCTTC AGTGGGAAAA  
 AAACGGTGGA ATTAACTAG TGGAAACAAG GCTTTCTCAT CTAGTCCCAA TCCAGTCGAT AAGCTGTGTT TNCATCAC  
 TGCTCCAGCA CAATGGCCCT CAGTTTATTT TTAAGTCTAT GGCATGCTG AAGGACCATG TTCCCATGAG TGACACCCCT  
 CTGTAAATGT GGTGGCACAT TATGGGCTGC TGTTTTAGAA GGGACTGACA ACTTGCTGGG GGTAT

SEQ ID NO:1558: (Length of Sequence = 292 Nucleotides)

AATTCGCCCT TTCCAATGT ATTTCAATC CCTTGAGTGT CTAGGCTTCC TGCTTTTAAAG GCTTNCCTTC TAACCCAGGG  
 TTGCCCCATT CACCTTAAAA CATTTTCAA TAACCCAGAA AAAACCAGG TGAACATACC CAAGCTCCGG AACCCAGCAA  
 TMTGTTCGA ACCCGCTGA TGACTCCAG GGAAGCCAA GAGGACAAAG ACAAGGATGA GGACGAGGAC CCAGGGACCG  
 NTGGTGAATG GCAACTGCTG TCACTTCAC TTTTCAACCT CAGNCAGTTT GT

SEQ ID NO:1559: (Length of Sequence = 246 Nucleotides)

GTATTCGTT CTCAGCCCAA CAAGAGTGAT CCTTTTAAGG TCCACACAG CTGCCTCTCC TCCCTCCCA TGAGCCTCTG  
 GCATGGTCTT TCCTCCAGCT GGGCCCGGGG TGGGCAGAGC CTCCTCTGC CGGGGCCCC GCCCACCCC TCCTTTCCT  
 GGAGTNAAGG TGTCATACC AAAGACGGAA CCATTTGCC TTTAAAGAAA ATATATNCAG AAGCAGCCGC TGCTCGNAG  
 CCTGG

SEQ ID NO:1560: (Length of Sequence = 383 Nucleotides)

CCAAAGGTAC AACAGATTTA CTACATTIAA GACAGGAATC TTTTCTAATC TCTGTGCTTA TTAAAGAAGC CACCTGCTTA  
GAAGTACTTT GTAGATGAAA AAATACTTAT GAATCCACTG TAACTTCACA ATCTTGAATG CCAAGGAAAA ACTTTACTAG  
TTTCATTAC CACTATTCTT TAAAGINCTT TTGATTITTA TGTTTTAAAT TTTTAAATTT TATATTTTGA GACAAGGTCT  
TGCTCTGTG CCCAGGCTGC GGGGAGTGG CATAAACGTG GCTCACTGTC ACTTTGACCT CCTGGGCTCA AGGAATCCTC  
CCATCTAGN CTCTGAGCA AACTGGGNCC ACAGGCATGC ACCATCATGN CCAGCTAATT TTT

SEQ ID NO:1561: (Length of Sequence = 313 Nucleotides)

CCCCCTCCAC CGCAGTCTGT GCCCCGTCC CCACCACCAC CTTCCCCAAC CACTTACAAC TGCCCCAAGT CCCCCTCC  
AAGAGTCTAC GGGACGATTA AGCCTGCGTT CAATCAGAAT TCTGCGNCA AGGTGTCCCC CGCCACCAGG TCCGACACCG  
TGGCCACCAT GATGAGGGAG AAGGGGATGT ACTTCAGGAG AGAGCTGGAC CGCTACTCCT TGGACTCTGA AGANCTCTAC  
AGTCGGAATT NCGGCCCGAA GNCAACTTTC GNAACAAGAG AGGGCAGATG NCAGAAAACC CATACTCAGA GGT

SEQ ID NO:1562: (Length of Sequence = 320 Nucleotides)

AAACGGGCG CGAACCGCAG TATCATGCTG GCCAAGAAGA TCATCATTA GGAAGGAGGC ACGCCTCAAG GAATAGGTTT  
TCCTAGTGT TATCAGCAG TTATGTCAT CTTTTGGAG TTTTTGCTT GGGGACTATT GACAGCACCC ACCTTGGTGG  
TATTACATGA AACCTTTCCT AACATACAG TGTGTACAG TTCTAATACA GCAAATTA TACAATTTT TATTAGATCA  
AAATCAATA GAATGTTTCA TATGTTTTAA GGAAGGTTCA TTGAATTCT TCTTTTCAAT GGAAGTCTTC ATTTGGAAAA

SEQ ID NO:1563: (Length of Sequence = 299 Nucleotides)

GCACAAGCAT GACCTGAACC TGTCACCTGC CCGTACGAT TACATTTT TATAGTTTTT TGTGATTCTG CCTGCATTTA  
ATCATCATCA CCAACAAAA TAGTCTCTCT GAAGAATTAT TTATACTAG GATTCTCAGG NTATCTCTC TCAATCTCTA  
TTGGGATCAC TCCACTCTGA CTGTGACACT CATTTTCCCA CTGATGTAGC TGTCTCAAG TTAGAAGTGA AGTTCTCAGT  
CTTCATTTTA TCAGTCATCT CAGCAGCATT CATTATGGTT CAGGCACTCC CTCTATTT

SEQ ID NO:1564: (Length of Sequence = 325 Nucleotides)

CAGATGNTC AGTTCATACT CTGGCAGTTA ATTTTATTC CTCTAAATAA AAATGGACAG GTTAATTTAT TAAGCAGCTG  
TGTTATCAAT ATGGTACGTG TGTGINCTTG TATAGATAGA TGATATGTGA CATAATAAC TATACATTTT NCTGGACACA  
TAATATTINA GGTCCTATT GTATGCTAGA CACTGTCTA CCATCAGTAA AAAAGCACTG CCTGTTTTA CTGTGTGATTA  
AAAACAAAAT TCTGAAAAA GTGANCAATG AGGCTTACAA CATTGTGTAC AGGNTAAGGN ATCTCAATTT AGGAAAATGT  
TGTC

SEQ ID NO:1565: (Length of Sequence = 382 Nucleotides)

TTTTTTTTTA TATTAGTGCC TGCTTTTTTA AAGTTTATTT TACATTTTAA ATACAGTATT TTCTCATTA AAAAAAATC  
CAGGAAGTGC CTAATCCAT GGTTCCTATA CCATATGTAC ATGAAAGCTG ACAGAGAGCC TGACAAATGT TCTGGATGTA  
ACAGTATGAA CACCTATGAG CTGGGACTAC TTCTGANTCA AAATTAAAA ACACAAATTA AGCACTGCTT AAGAAAAAA  
AAATCCAGTT TCTGAACAAC CAAAAGAGAA CAGAGTAGA TATGTACAAA ACCAGGTATT AAAAANCAGN AAGGAATACA  
GCACAAAAA ACTCAAACAN CCCATATGTA GTGAACGTGA TACTGTGAG TTAATGAAA CC

SEQ ID NO:1566: (Length of Sequence = 305 Nucleotides)

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GCACTGTGGC TAATTGTAGC TCAAAAGATC TGCAGAGCTC CCAGGGCGGA CAGCAGCCTC GGGTGCAATC CTGGAGCCCC  
 CCAGTGAGGG GTATACCTCA NTTACCATGT GCCAAAGCAT TATACAATA TGAAGGAAA GAGCCTGGAG ACCTTAAATT  
 CAGCAAAGGT GACATCATCA TTTTNOGAAG ACAAGTGGAT GAAAATTGGT ACCATGGGA AGTCAATGGA ATCCATGGCT  
 TTTTCCCCA CCAACTTTGT GCAGATTATT AAACCGTTAC CTCAGCCCC ANCTCAGTGC AAAGC

SEQ ID NO:1567: (Length of Sequence = 292 Nucleotides)

GATTTCCTTG GGAAGACAA CATCACCAGC AAATGGATGA TTGTCAACTG GGGAGCCATT GACTCTCCAC TTGATTGTGG  
 GTTGAGGTTC TNCITCAGCC TCACATAACA AGATGCCATT GCTTCCGGTG CTATACACAG CACTCTGAGG CTTCTTTGTC  
 CAGGAGGAG GCTCTTCTAC TATAACGTGA AAATCGTGAG TGGCTGTTC CAAGAAATTG CTGGCTGTGC AGCGATAATT  
 TCCTTTGTCC TGGTAGGAGA CATNCTCTAT CTTCAAAGTC TTGCCATAAT TT

SEQ ID NO:1568: (Length of Sequence = 204 Nucleotides)

ACCTACTCAG GAGGCTGAGG CAGGAGAATA GCTTGAACCC AGGAAGCGGA GGTTCAGTG AGCCGAGGTC ATGCCACTGC  
 ACTCCAGCAT GGGCAATAGA GCGNACTCT NTCCCCCGG AAAAAAGAA CAAGGGCTAA NITCAAATCA AATTTTCCT  
 GTACCCTAAG AANAATAATT AGNCGGGAG ATGTTTGAAT AAGT

SEQ ID NO:1569: (Length of Sequence = 362 Nucleotides)

CACAAAGCCA AGTACAGAAC CACAGAATGA AGCCGTCACA AATGTTGAAT CCCAAACAC TAACAGGAAC AACTCGTATT  
 TCCATTAAATC AAGATTTTAG TATACCAAT TTCTAGTTT TTATCTCATG GAAATATAAG GGTATTTTAT CTTTGTATG  
 CTACTGAAGG GNAACATCA TCATACAGCA ATGAATACTT CAAGGGNCTT GTTGATCTCT CTATTATTGA CAGTGGGGTG  
 TTAAAGTCTC CCACTATTAT TGTGTGGNG GCTACANCNC TTTGTAGGGC TCTAAGAAGG TGTTTTATGA ATCTGGGGGC  
 TCCTCTTTGG GNGCATATAT AATTTAGGGT AGTTAGTTCT CC

SEQ ID NO:1570: (Length of Sequence = 262 Nucleotides)

TGCTAAATGA TAGANGACAG ATTCAAAGTT GTAGTTACTG CGTAACTTTA TTTATGAGGC ATTTTAGAAT AGGCAAACT  
 GATCINTTGT GGTAGAAGTA AGAAGTGGG TACCCCTCGG AGGAAGAGAA TTINCTTTGA AGTGGCATGA GAGGATTTT  
 TTGGCTAATG AAATTATTTT NATATCTGAG TAGGGTTGT GGTACACAG TTTAGGCATT TNCAAAAT CATGGNACCA  
 TTCATCCAAG TCCTGTGCAT TT

SEQ ID NO:1571: (Length of Sequence = 402 Nucleotides)

TGCTAAATGA TAGAAGACAG ATTCAAAGTT GTAGTTACTG CGTAACTTTA TTTATGAGGC ATTTTAGAAT AGGCAAACT  
 GATCTGTGT GGTAGAAGTA AGAAGTGGG TACCCNCTGG AGGAAGAGAA TTINCTTTGA AGTGGCATGA GAGGATTTGT  
 TTGGCTAATG AAATTATTTT TATATCTGAG TAGGGTTGT GGTACACAG TTTAGGCATT TGTCAAAAT CATGGAACCA  
 TTCATCCAAG TCCTGTGCAT TTTACTGTGT GAAATTTATA TCTGACTTT TTTCAAAAAA GGAAAAATA CTTAATTATA  
 ATATAGCAIT TATGNATTAA AATAATCCN TTATGTAAAA ATATTTTATT GGNITGGTCA AGATTCATGA TTGCAACCA  
 CC

SEQ ID NO:1572: (Length of Sequence = 417 Nucleotides)

CTACCAGCCC GTTTTCACAA CTAGCAGCAA ATCTGAAGC ATCCCTGCCC AACCGCAACA GCATGGTGAG CAGAGGCATG  
 ACAGGAAACA TAGGAGGACA GTTTGGCACT GGAATCAATC CTCAGATGCA GCAGAATGTN TTCCAGTATC CAGGAGCAGG  
 AATGGTTCCC CAAGGTGAGG CCAACTTTGC TCCATCTCTA AGCCCTGGGA GCTCCATGGT GCGATGCCA ATCCCTCTC  
 CTCAGAGTTC TCTTCTCCAG CAACTCCAC CTGCTCCGG GGTATCAGTC ACCAGACATG AAGGCTGGC AGCAAGGAGC

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GATAGGAAAC AACAAATGTGT TCAGTCAAGC TGTCAGAAC CAGNCCACGG CTGCACAGCC AGGNGTATAC AACAACTGA  
GCATCACCGT TTTCCAT

SEQ ID NO:1573: (Length of Sequence = 368 Nucleotides)

CAAATAAGTT AGAAACATGA AAAATCTTA GAACTTTGA TGAAAAATTA AATTACTAC TAATACCCAC CTGCAATAAT  
TTCCCGTAGT TTGGGATCTA GGTTTACAGT GCATGGCAA AAGACTTTTA CATCTCGAGC CACAAGAACT GGGGTCTTG  
AAGACAAAA CACTTCAAAA TTTCTTATAT CTCCATCAAT TTCAAGAAGT GGCTCAACAT CCTTAGTTGT TGGAAATATC  
TTTGATATTC TTTCGTAGAT GGTTTTAAAT GTCAATTGAT CTGGAATACC TTCAGTCTCT TCCAAATATA ATATGAGNCA  
TGAAGTCCCG TATGGCCACT GCTCAGTAAG GTTGATCCCG CTAGCAAG

SEQ ID NO:1574: (Length of Sequence = 397 Nucleotides)

AATTTTAAGC AAATGTTATG TTTAAAGACT GTTTTGATGA AACTTTTAG AATTGAGTTA GTAGCAGAAT ACATAGCTAA  
ATGTACTTTN CTACAAATAG AATGAGATAT TTGATTTAAA ATATTNCTTT CCTCTTGAAA TAGGATGTTA GATAGGGACA  
TCTCATTTTA CCTATCAAGT TCTGAGTCTT GCTTTAGAAC TACTTCTTTT AACTTAATIN CATGCATACA CTGGAAGACA  
ATAATATGCG TTTTAACTG CATTATCTTT AGTTGAACT GATGGAGAAA CAAAATACT GCTTATACCA TATTGGGTAC  
ATGCTGAATG TTTTAAAGA CTAGCCAAA CTGACATTTT TTAAATTAATA ATAAGATGTT TTAGTTTCAA ATTAGAG

SEQ ID NO:1575: (Length of Sequence = 296 Nucleotides)

GGACTCAGCC TTCCCGGCA TCTGCATGAT GATCGGTGTC AACCCGGGG GGTGTGTGCA GGTGGGGCA GCTGGGCTCT  
NAGGGCAGGC GCGGCNCTG GGCTCGGGG GCGGCTCACC TGGGATCCGT CACGTTTCAG GACTTTATTT TCTTCTTCAA  
TENGTAGCC TCCTGGGTGA GCGGGAAGAT NACCTTCGGG ACATGTTTTA TAAGGTGAGG CTCGTCTGG GCGGCTGATC  
AGTTCGGGA GCAGGCAGGA NGTGAGACCA TCTGGTAACA ATNGGGGCTN GGGATT

SEQ ID NO:1576: (Length of Sequence = 289 Nucleotides)

CTTTATGAAG TAGTAATTC TGAGAGGTGT GCTGGCTGAA AACATAATAG GTTCTGGAAG AGCCAGGTAA ATGCCTGGNT  
TTAGACATGC AGGGGTTAAT CAAAATAATT TAGGAGCGTT TTCAGCTGGT GAGCCTCATA TGGGATCTTC GAACCGTGG  
CGAGAAGAAA ACGGTGTTT AGGAGCACC AGGCACAGTG CTGGAAGGG AGAGGCTNGC CGGCCAGTGT GCAGCTCAGC  
TNTTTCGAGG ACGGAACCCG CAGCCTNGCT GNTCCAGC AGACCCAGG

SEQ ID NO:1577: (Length of Sequence = 320 Nucleotides)

CAGACTCTAC TCAGATTTCC CGCTATGCC CTTAGGACAG AGCTGGAAGG GAAGGAGGCT GGGCTATTT AGTCATAATG  
CCTCCCCACC AGGTCTAGCT TTCAATCATC CATGAACCT CACCAAGGG CCAAGAACTG AGTCACTGC ACCCTGGACC  
CCTGTGAGG TAGGAGAAGT AGAGGTGGG AGCAAGGTC CTCTCTAAT TTNTTGCAT CCCCTCAGTG CCCAGCACAG  
CTCCGATAC AGGGCAGGTT CACAGTCAGC GTGTTCACT GGNCTGTGT ATGCACCTAA GGAAAGNCT CAATTTCTCT

SEQ ID NO:1578: (Length of Sequence = 217 Nucleotides)

AATCAGGAGA ACTGTTAGAG CCATACCAGA GAAATACA AGAAAGGCAG GACTGCAAG NTCTAGTGGA GGCTGTGAGA  
AAAGGTAAAC CCTTCTTAA GCTCATCTGC CCTTTAGTT ACCACTGGCT GTCTCACTCC TGGATTATG TGAATCCCT  
AGCTACTCT TCCANCCCC CTGGATGTT CCCCACCTAT CTTTCTACT CACAAAG

SEQ ID NO:1579: (Length of Sequence = 375 Nucleotides)

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TTGGTCCTCA AGTCCTATTT TAAAATTTTG TCAATTAGAG GACTCTTGGT TCTCTTGGTT GACTCATTCT CTGCTGATTT  
 GTTCTCTGTA CTTGCAGCAA ATAAAGTGCA GTCATTGAGA ATGTCCTGT GTCACTGTGA TGTATCAAGG GATCTTCATG  
 TTAATATCTG TTTCTCTGAC AACTGTGTTT TATACTTTGT ACTGTAGCTT TCATTGGAGA AGCCCTGGGC TCATAAGAGT  
 GATTTGTGT GGCATTTCTT TATGGAACAT AAGCTTTTGA AATATACTTG AGGTAAATAT TCATGGGAGA CATCCAAATG  
 CAGTAATGAG AGTACAATGA AGACAGCATT TINGACTTTG GAAACCTGAG TTCAA

SEQ ID NO:1580: (Length of Sequence = 325 Nucleotides)

TCINCTGATG CACCCATGAG AGGGGAGACA GCACTGTCTT CTCTCGCAGT TTTCCCTTAA CACTCCCTTA TCTGCAGACT  
 TAAACTAGGA GCCCCTGGCA GAGTCTACC TCCAGAATCA CAAAAGTGTA GAAGGAAAGT GAGAGACATT GATTGACTTT  
 ATATCTGACT TACTAGTTTC CTAAGGCAGA GATTTTTTAG AAAACTGCCT GGCCTGGCCC AGCCAGGAT AGATAGGGAT  
 GGGTAAGAAG CCTTNAGAA TGTGGCAGTA TGTGGCTTNG ACTTCAGACT TGTCAATTA GGGGTTTTAT AGGGGTTTTT  
 TTAGC

SEQ ID NO:1581: (Length of Sequence = 402 Nucleotides)

GCAGATCAAG AAAAAGTTTC AGCCATGAA CAAGATCGAG AGGAGCATAC TACATGATGT GGTGGAAGTG GCTGGCCTGA  
 CATCCTCTC CTTTGGGGAA GATGATGACT GTCGCTATGT CATGTCCTC AAAAAGGAGT TTGCACCCTC AGATGAAGAG  
 CTAGACTCTT ACCGTCGTGG AGAGGAATGG GACCCCAAGA AGGCTGAGGA GAAGCGGAAG TTGAAAGGAG CTGGCCAGA  
 GGCAAGAGGA GGAGGCAGCC CAGCAGGGG CTTGTGTGT GAGCCCTGCC AGCGACTACA AGGACAAGTN CAGCCACCTC  
 ATCGGCAAGG GAGCAGCCAA AGACGGAGNC CACATCTAC AAGGCCAATA AAGACCTACG GCTTTTTTCC CTTGGCCAAT  
 AA

SEQ ID NO:1582: (Length of Sequence = 286 Nucleotides)

TCTTAGTTGA TTTAAACAAA TAATTGAAAT AAAAATTAT GTTTATNCTT ACATGTATGC CATGTAGCAC TTTAAGGAGA  
 TGAGTTTATG AAATTCATGA ATGAGAGGAT GATGTAAGTT TAAAAATCAT TATTTTAGTT GCTTTATTCT NCTATTTTAA  
 ATTCAATAAT AACACAGGTG GCCTGTATTT TGAAAAGAGC CCTTCTCTCC ATTTGANCTT TATAAAGACT GAGGCAGTAG  
 GTGTAAATA TTATCTCCAC TTTATATTG AAGGAAATGG GGGCCA

SEQ ID NO:1583: (Length of Sequence = 323 Nucleotides)

CTAATTTTGT TATTTTTAGT AGAGATGGGG TTTCACCATG TTGGCCAGAC TGGTCTCAA CTCTGACCT CAGGTGATCC  
 GCCTGCCTTG GCTCCCAA GTGCCAGNT TATAGGCATG AGCCACCAG CCTGGCCTTC CAGTTGTGAC CTTGTTAGGA  
 TACTGCTTTA ATTCATTTTC CCATTGAAAA TAAGCATGAA AATAACTGTG CAGTCATAAT TGTGGTATTT NCTGTNAAGG  
 AAAGTGGCAG GCCTCTGAGT GTTTATCGGG AGACCTAACC CAGTTCAGA GGGGAAGTCA GAAGGCTTAC TNCCTAATG  
 GGG

SEQ ID NO:1584: (Length of Sequence = 301 Nucleotides)

AAATACTGT AAATCACTTT ATGTTCTGA GTAAGGAAGT AATGAAACAT ACGTACAAGT AATCAGTAAG ACTTGTTAGA  
 CAGCTGTTGT TCAGGATGCC TTTAAAAGGG CTGGTAATGC AGTTACATTC TAACAGAGAA GTCCAAACTA CAGGTAAAAA  
 CTACGGCTTG TACTGTGAAA AATGTGCAGC TTTTCAGTTA TAAACTAGT TGAACACTGG TTTACAAGGT AATCCGTAGG  
 AACAGAGAGA CTGTAGGAAA ATATTCCAGC ACTTTGAGTT GTGTTTGGC ASCAGCATTT G

SEQ ID NO:1585: (Length of Sequence = 328 Nucleotides)

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AAATACTGAT TTCAGACCTT CTGCTCTAG AAGTCAAAT ACTTTCCCC TGACAAGAGG TAAGATAAGG TAGAAAATAG  
 AAACACTGGA AGAGAGATCT GGACTCCTAA AGCTGTGATG CCATAGTGTA GTGGGGGGGG GTGCGTGAGG AAGTCAGGAA  
 TGCCGCAATG TTAAAGGGAA AGGGAAGATG GAGCAAAGTG AGTCCCAGGG CCAGCAGGGG GCCAGCCTTN TTGACAGGG  
 GCAGGGGAGA AAAGGCCAGA CTTCCTATAC ACATGCTAGA GGGGAGGGCT AGTGTGAAG GGTAAATAGT TGAAGGAGTC  
 CACGGGCT

SEQ ID NO:1586: (Length of Sequence = 256 Nucleotides)

GGACTATCTG TATGGCAGAC TCATCAACTT TGAGAAGAGG AGGAAGGAGT TCGAGGTGAT CGCCAGATC AAGCTGCTGC  
 AGTCGGCCTG CAACAACCTAC AGCATTCGCG CAGATGAGCA ATTGGGGGCC TGGTTCGGG CGGTGGAGCG CTCAGCGAGA  
 CTNAGAGCTA CAACCTGTG TGCGAGCTGG AGCCCCATC CGAGTCAGCC AGCAACACCC TCAGGACCAA GAAGAACACA  
 GCCATINTCA AGCGCT

SEQ ID NO:1587: (Length of Sequence = 371 Nucleotides)

GGATTCTACA GGCATAGACT TACACGAGTT TCTGATTAA ACATTAAAGA ATAATTCCAG GGACAGGATG ATACTTTTGA  
 AAATGGAGCA GGAAATTATT GATTTCATTG CTGACAACAA TAATCATTAT AAAAAGTTCC CTCAGATGTC ATOGTATCAG  
 AGGATGCTTG TCCATCGAGT GGCAGCTTAT TTTGGATTGG TTCACAATGT GGATCAAACA GGNAAATCTG TTATCATCAA  
 CAGNCCAGC AGCACCAGAA TTTTACCAGC CAGTCTTGTC TNGTCAACAG GGGNTTCCAA GGGCTAATAG GAGTNCAGCA  
 GCCACCTCA GAGTCAGACG TGGTTAAATN ACCCCCAAGG GACTCCGGTG C

SEQ ID NO:1588: (Length of Sequence = 314 Nucleotides)

CACACAGGAT TCCATAATAC TCCTGCTGTG TTCTGAATAT TTGTACTTCA CATGGGATTA CTGAACACTA CTACGAGATT  
 CTGAATGTTT GINGCTCACA TAGGATTCCA AAATGCCCTT GCTGTGTTCT GTTGTGCCCT CACATAGGGT CACTGCTGCT  
 GGGTCTCTAG TGTTCTCTAC TCACATAGAA TTCCAGNACA CTGCGAAGAA TTTCTGAATG GTTTCTGTGA ACATAGTATT  
 CCAGCACACT CTCGCTGTTG TTTGAATGTT TGTCCTCTAC ATAGGATTCC AGAACACTTC TGCTGATGTC TTGA

SEQ ID NO:1589: (Length of Sequence = 256 Nucleotides)

GACGAGGCAC CATGCGTGAN ATCGTGACAA TCCAGGNGGG CCANINCGGC AACCAGATCG GNGCCAAGTT TTGGGAGGTC  
 ATCAGTGATG AGCATGGGAT TGACCCACT GGCAGTTACC ATGGAGACAG TGATTTGCAG CTNGAGAGAN TCAATGTTTA  
 CTACAATGAA GCCACTGGTA ACAAATATGT TCCTCGGGCC ATCTCGTGG ATCTGGAGCC AGGCAGATG GATTNGTTA  
 GGTCTNGACC ATTCGG

SEQ ID NO:1590: (Length of Sequence = 313 Nucleotides)

GGCAACAAGC CAAGTAGCAA AGATATAAGC AACAAATCAA TGGAGCCTGA AATATGATAA GAGCATACAT GCACTTTAAC  
 AATAATTTTG ATACTGGAAT GATTATTTCA GAAGCAATAT TTTTNCCTGAA AAGCATTGGT CTCTGTACA GAAAAATAAA  
 AAAGTGAGCT GCCACTCATA GTGAATTAAG AGCTGTGGGC TGAAAGGGTC TCTTTTATAG CCAGTTTGAA ATTTTTCATA  
 TAATAAAAC AGTATGTAAA TATTATATAT ATATACACAC ATACATATAT ATGCATATAT GTACATATTT CTG

SEQ ID NO:1591: (Length of Sequence = 296 Nucleotides)

TTTNGTCTC CGGCTCACA ATTCAGCGAC TGCAGCTCG CCAAGGCCAG GGGAGACCTG GGTGCTTCA GCAAAGGTCA  
 GTTCAGAAAG CCAATTGAAG ACCCTTGGTT TGCCGGGGG ACCTGGGGA TATCTGGGAL ATCTTTCACG GATTCGGGC  
 TCCAGTCTAT TGTCCGACG GAGTAGGATT NGGGGCCAG GCTTGGCTC GGGGTTCCCC CGCTGCTGC TGGCCAGTGG  
 CNGAACCCCC CANTNCCTGC CACTNTCACA CAGTATTTAT TGTTACCAAA ATGGCT

SEQ ID NO:1592: (Length of Sequence = 299 Nucleotides)

GGAATTCCCA AATTATGGGT AGTCCAAAAG CCAAAGGCAA TGTGAGGAAG GACACTCCCC AGATAAGAAC AAAACAGAA  
ATCTGTATGT NCTATGTGTT ACACACAGTT GCGAATAATC AGATGTACAC ACATGATGCA AAGGCACGCC GCTACACATT  
TATGTGATAT TCAGACATAT GTTCAAATAG AGGAGGTGAA TATCTTTTAA TAAATACAAT TTAGCAAGTA CAAGAATGCT  
GATCAGCTGC AGCTCAAGAG GAAAGGGGGG AAAAAATCTT ATGGGAAATT ATTAATACT

SEQ ID NO:1593: (Length of Sequence = 378 Nucleotides)

CCAGTTTGGT GATTCTNTTC TGTGTCTGCT GATCTATTGG CGTGAGAAGC TGAAAGTGAC CAGCCAACAG CCATAACTTT  
ATGTTTAGTG AGACTCATAA TGGGTCTCCT GCTGGAAGAT CCCCCCTCTA AGANTCAGTA ATTCTAGACC TGCAAAGTTT  
GAAGTTGTAA GCATGGGAAA CACAAATTCC CCAATAGGT CCAGATAGTG ATAGAGAATA AGACACTTAC TTGCCTACTT  
CCATTTCTCA GCCCAGATAT TCTACCTATA GTGGACATGC CCATGCAATG GGCTATTGGG TTTGAGGTAT ACATTGCACG  
GTGAAGGAC AGTGCTCAT CCTTGACGGG GTGCCCTTIN CCAGTTGGCA CCACAGCT

SEQ ID NO:1594: (Length of Sequence = 353 Nucleotides)

ATTTTINCGG GGGAGGTGTA TGTAGATGAG AGTCTATGAT ATAAAGCAGT AAAAAAATG CTGTTGTATA GGGATGCAAT  
ATTTTCGGTG TAAGGAAGAG GTTTTAATTC ATAAATAGA AAACAGGTG GAGAAGTCTT TAGGAAAGGG ATACCTTTTG  
GGTTGGCTTT TGAAGGAGAA GTTTATACCC AGGTTCAAGC TGAAGGGCTA AGTGAGTAAC TGAAGGGGCT GAGCTATTTG  
GATTACCATG AGGAATTTGT GATGGCTGGG AATGTAGGT GTGTGACCAG ATGTGGAATC ACAGAGGGAG CCCACAGAGG  
AGCTTOGGCA CATAANCTAA AGAGTTTAAT TTT

SEQ ID NO:1595: (Length of Sequence = 343 Nucleotides)

CAATATATTA AATCTATTTT GTAGCTGGAC TTCATTACA ATGTAACAGA ACATTGAATA TTAGATTCTG AGCATATTCA  
TGAAACTTC CACTTTGGTG AAAGTGATGA CAGTGGAGTT CTGGAAGACA ATTTTCCTTG TAAACACCAA GTTTTGCATC  
TTGGACTATG CTCTCAAGAT AGAACTTAC GTGAGTGAA AAAGAAAATG TATAAATGTG AACAAATATT CCTTACCACA  
CAGAATAACC CTGGCAACAA ACAATATCCC CAAGTCTGG GTNATTCAAT CCTCACCGTG GGCAGGAAGG GTGAAGGAGG  
CTGCACCTGG GNCACAGCCT TTT

SEQ ID NO:1596: (Length of Sequence = 373 Nucleotides)

TAGTCAGTTA TTGCTGCACT AGAGCTAAAT AAAAGACATA AATATCTAAG GCACCTACTG GAATAAACAT CTTATTTCCG  
CTAAGAGGTT GGCTAGGGAA GCTCTGCTTC AGAGTATGGG TTGAGTATAA GCCTGTCCTA CATGCTTTT GCTCTGGGAC  
CAGGAGTTGT GCAGCCCATC CTTTCTCAA GACAAAAGCT GAGCCAAGCA AGGACATTTA AAGCTTCACT TCTGCTCACA  
TCATATCTAT TGCNCAACA TTCCATTGGG CCAAAGCAA TCACATGGGC CAAGTCAAGC ATCAGTAGGT CTGGGGGAAT  
ATTCTTTCTT CTACTCTTGG ACACATGGGA AAGGGTTATG CATACTAATT CTT

SEQ ID NO:1597: (Length of Sequence = 276 Nucleotides)

GATGTCCAT ACTTGATTAT TAGTTTCTAA AGAAAGTATT CTTAATTCCA AGCCTAATAG CTCTTATGTC ATTAGTTTCT  
AGTGCAGAGA AATGTACTTG ATGAATTTT GTTGACTTTT TTTTGTGCTA GCCAATATGA AGGTGCCAG TCCCTGCCAA  
AATGAGCACT AAACTATTT TNCATGAGTA ATAACAATA TATTCTTTT TAAATAGCAC CTCTAACCCA AAAATCTTAA  
GCCTATATAA ACATTCATC AACANTACAC TCAAAA

SEQ ID NO:1598: (Length of Sequence = 355 Nucleotides)



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TGTATTGCTA ACTGTCTTTG TAACTAATTT ATGTATACNC TAAATGGTAT AGCATGTGAT TTTATTATAG TTGATTAACT  
 TTGTAATINC TGTAAGTGCA TCGATATCCC AGTCTACCTG GAAAATTAAG TCTATTAAAC ATAGTGTCTG TGGGAGACAG  
 TACTATTGCC AACTGAAGCC TGAATCCTTC ATTTATTTTG TCCCCAGTTA CAGAGTGGAG GTTTAGAGGA GTGGGGTTAG  
 ATAATGCTCA GATTAGAAAT ACAAAGGCAG CTGTCAGATC CTCCCATTTT ATTTGTTTGA AGGAACTGAG GTTGGTAAAC  
 ATCACAAGNG CTAGTTAACT GGTGAGTAGC AGCCC

SEQ ID NO:1599: (Length of Sequence = 313 Nucleotides)

GGAGGTGAAG GACACAGTGG ATGGGCAGAG GNTCCTGGAG AAGAAGGGCA GINCTGQNCCT CAAGGACCTC AAGGGGCANT  
 GCATTTGGAG CGGAAACGGG CAGATAAGCT GCAGGAGCGA CTNCAGGACA TCCTCACTAA CAGCAAGAGC CGCTCAGGCC  
 TTNAGGAGCT GGTCTCTCA GAGATGAAGT CACCAAGCGG GACCCAGACA GGGGACAGCA GTAGCATCTC CTCCTTCAGC  
 TACCGGGAGA TCTTTGGGA AAAGGAGGAG CTTCGGCTTG TTCCAGCCAG GTCCTTATCC AGCAGNCCIN AAG

SEQ ID NO:1600: (Length of Sequence = 277 Nucleotides)

AGTTCACAGA ACTCCAATTC TTTATTAAATC ACAGCTTGCT CACAATGACA TACAGGAAAA TAGCCTAAT GAAGAGTAAA  
 TATGCAGGCA GCAACCTTCA GGAGTTGGGA GTTGGGGAGA AAGACTTCA AAAGTGGAT AGGTACTTAT GGTGGGTATC  
 TGGTGATTCT TAGTTGGCAC AAATGCCCTG CCTAGCCCC TTAAGTGGT CANTTTCACA GATGGAGTGT TTTGTGTGTG  
 GTGTGTGTAG TAGGCAGGAT TGCCTTACAC TGGGGGA

SEQ ID NO:1601: (Length of Sequence = 228 Nucleotides)

TTGAGACCAT CCAGGCTAAC ACGGTGAAAC CCCGTCTCTA CTAAAAATCC AAAAAAAAAA AAAAAAATT AGCCGGGCGT  
 GGTGGCTTGC GCCTGAAGTC CCAGCCACTA AGGAGGCTGA GGCAGGAGAA TGGCATGAAC CTGGGAGGCG GAGTTGCAGT  
 GAGCCGAGAT CGGCCACTG CACTCCAGCC TCGGCGACAA AGCAAGACTC TGTCTCAAAA AAAAAAA

SEQ ID NO:1602: (Length of Sequence = 299 Nucleotides)

GGAAGTCCCT TCTAATGAAG AGGGGAGATG TTATOGATTA TNCATCATCA GGGGTTTCCA CCAAGATGC TTCCCCCTG  
 GTTCTTATCA CTGAAGAAGA TGAAAAATCA GATCAGTCAG GCAGTAAGCT TCTCCAGGC AAGAAATCTT CCGAAAGSTC  
 AAGCCTCTTC CAGACAGATT TGAAGCTTAA GGAAGTGGG CTGCGCTATC AAAAACTCCC AAGTGACGAG GATGAATCTG  
 GCACAGAAGA ATCAGATAC ACTCCACTGC TCAAAGGATG ACAAAGACAG NAAAGCCGA

SEQ ID NO:1603: (Length of Sequence = 263 Nucleotides)

AAGGCAAGAA ATTAGCCTTG TTAAGAATTT TAAGTGTAA GGAAGCCAT TAGAGGGTTT TAAACAAGGA AAGATGTGAT  
 GTGACTTATA TTCTAATAGG ATTGCCTTGA TTCACCTATG GAGAATGGAT TNNIGGGATC TCAGTACTGG GATACTGAGA  
 TCCAGGGGG AAAATATCAC TAAGGTGGGA ATTGCTTTTC TGCAATTAA AAGCAATTN CTTTTTCTT GAAACCTOCA  
 TGIGATGTTA ATTAGGGTAA ATG

SEQ ID NO:1604: (Length of Sequence = 260 Nucleotides)

ATGAAGACGT ACGACTTAT TTTGTGTCT GAACATAAGT NCTTTGTAC ATAAATGTG CTATGAATGT TGAGTTTAA  
 ATACTOGAGC GGTGACTCAC GCCTGTAAATC CCAGCACTTC GGGAGGCCAA GGCGGGGGT TCACCTGAGG TCAGGAGTTC  
 GAAACCACTG TGGCAACAT GGTGAAAACC CGTCTCTAC TAA/AAATACA AAAGTAGCGG GGTGTGTGG CGTATGCTGG  
 TAATCCTAGG GTTCTGTCA

SEQ ID NO:1605: (Length of Sequence = 290 Nucleotides)

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GACAGACATT CAAACCATGG CAGGTGGCAA GAAGTATCAA ACTACTAGAT CCTTGGGATT GTNCTTTGTA CTGGGGTGTA  
TTTTNCCAA CAATCTAAA AATCATATGA ATAGAGATAG CAATATATAT CTNACCCATT TGGAAATGCA CAGAGATTCA  
GGAGTGTTC CATAGAAACA GAAGATCATT GCCTTTTGTG CATTCCCAAC GCCAGNAATC TGTTTTCCCTT GACTCTTTTT  
GATCTGTGTT TCTGAATGTA TTGATATACT GCGCCTACTG GGTGTGCAGG

SEQ ID NO:1606: (Length of Sequence = 290 Nucleotides)

CTCACTTGGG TACTACAGTG TGAAGCTGA GTGCATATGG TATATTINAT TCATTTTTGT AAAGCGTTCT GTTTTGTGTT  
TACTAATTGG GATGTCATAG TACTTGGCTG CCGGGTTTGT TTGTTTTTGG GGAAATTTTG AAAAGTGGAG TTGATATTAA  
AAATAAATGT GTATGTGTGT ACATATATAT ACACACACAT ACACATATAT TATGCATGTG GTGAAAAGAA TTGGCTAGAT  
AGGGGATTTT CCTGAACACT GCAAAAATAG AACGTAGCAA AATGGCTTCA

SEQ ID NO:1607: (Length of Sequence = 365 Nucleotides)

GCTCCACTGA CCAGCTGTTT CCTGTCTCTC CTCTCTCTTG AGCCTCCCTC TTCCCTGAGA CACAATAATA TTAAAATTTG  
GCCAATCAAT AACTCAACAA TGGTGTCTAA TAATTGTTCG GTGCGAGGA AGAGGCATAC ATCTCTCACT TTAAATCAAA  
AGCTAGAAAT GATTAGCTT AGTGAGGAAG GCATGTCAAA AGCCGAGACA GACCAAAAGC TAGGCTTTTT GTGCCAGTTA  
GCTAAGATGT GACTATAAAG AAAAGCTGTC GAGGGAAATT TAGAATGGTA CTCCAGGGGA ACACACAATG ATAAGGAAGC  
AAACAGCCTT ACTACTNGGA TATGGGGAAA AGTTTTTCAGC TTGG

SEQ ID NO:1608: (Length of Sequence = 294 Nucleotides)

CTCAGGAAGC CTCTTTTCT TCACTTACCA TTACTAATC TCCAAGCATA GAAATCCCTG GGAATTGCGA GAATACTCC  
CACTATTTTA AAATTTATAT TCAGATTGT TTGTTTCAT AAGACACATC AACAGGCCT ATACAAAAGG TTTAGGAAAA  
GAAAACAATG GTGAGTCCG GCCCTCTCG AATTCACCTG CACCTCATGC AAGTNTAGGA AGGCACGCTG GATCGTCTAT  
CTGATTCCAA AGCTGTCTT TGCCATCTCA TCCCTTGNC TGCCCCCAA CCT

SEQ ID NO:1609: (Length of Sequence = 393 Nucleotides)

CAAAAGCTAA CTCTTAATAA GAAGATGAGG AAATAAAATC AGTTCAAAAG GGAGGAATAT GCATTCCCAG AATTAAAGGA  
CCCCGGGTCC AGTTTGAGGA GGAATCTTGG CCAGATACAA GCCCTTGTA TAATNCTCAA GAGGGAGGAG ACCTTATTIN  
CTCCTINGAG GTGTCTAGTA TGAAANCTGC TTATTTTGAA ATGTGATTCT AGCCATTATC AGGNGCAACT GCAGATAATT  
CCCATTTACA GAGGAATGCT GCTAACAGGT GTGGGNGGGA GCAGCGACAN CGNAAAATTC TGCTGTCTATA GGTACGTTT  
ATGTTGGTTT TCTTTGAAAA TCAAGGGGTA GAAAATTTCA TGCTCTAGA GGAGAGAGAG GAAACACATG AGG

SEQ ID NO:1610: (Length of Sequence = 464 Nucleotides)

TGTCGTGATT TATTAAATG CCITTACTAC TTITAGATGG CCATACGTTT TCAAAAGCAA AGACCTAGTA AGCCATTGT  
GTTCAATTGC TAAGCTATCT TAGGTACAGG TCCAGATTAT AAATGTTACC TGCTAATCAG AGAGCAAATT TTTAAATTAA  
TCACTGTAA ATCCACATTA AAAGAAAAAG AAAGTTAGAA AAACACATAA ATTTCTTTTG TGATCCCACT ATTCAGGAAA  
ATCCATGAA AAAGCAGATG ACTTATCGT GTTAAATTTT TAAAGNCCCT ATTTAAACTG TCATGTAAAT TCTNATTAT  
CTAATTTTTT AAAACACATA TAGNNTTTTA CTCTCCAGTT CCATAANTGN CTCANTCTG GTGANGGTCA TTACAACAGN  
CATTACNGG GCATATCGN NTAAAANGG CNGCGGTCC TGNATCNGAG GNGGGTTAA GTTC

SEQ ID NO:1611: (Length of Sequence = 465 Nucleotides)

ATAATTAAAG AAAAGAGAA TTCTACAATG TAAACCCCTT TAATATAAGC TGTTTTAATA ATTGGAAAAC AGAATGANT  
NTGTTTTTNT TGTGATGCC CAATTATTTT ANCAAGTTTT TAITAATAAC TTGCTACATG GTAGGCACAG CTGTAGGTGT

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TGGAGATATA GAGGTAAACA AGTCIGACAT GATCTATGCT ACCACGGAGT TCTTATTTTC AAAGTGGAG GTAGAAAATA  
 AATAAAATG ANCTAGAAGA GCAAAGTGCC TCTGAATGAG CATGCAGANG CATGTTTTCA AAATGCTGT GNGTGGGATA  
 AATAGATCAG CAACACACCA GGCCATGCAA TTINGCAGCA AATCACTTCT GCAGTCTAGC TGCTGTTTTT CCTACTCTGG  
 AATCATACTC CCCCCTTGG TCACTCINTG CAGTTCTNCT GNGCTTCACC CTACCCCTCN TTTTN

SEQ ID NO:1612: (Length of Sequence = 458 Nucleotides)

ATGAAATTGA ACAAACCTAA AGAGAAATGT TCTTACCGTT CCACAGGAAC CAGCTTCTTC CACTGGGCCA CTAGGTCCCT  
 GGCAAGGCTT CCAACATGCT CGTGTITTCG CAAGCTATTT ACTGTTTTCC CAACCCAGT CTCCTAAAT TTGACAAAGT  
 AATTGTTAGA GGGGTCTGGA ACTAGGCTAA CGTTTTCTA AAGAAATAAG GCTTTCTACT TTGAGAACT CAACAAGCAA  
 TACTTCCTTC CTACAACATA CCTGCAAAT CTTAACACTA AATTACTTTG TGTCTATGNC CCAAATCTCT AATGACACAC  
 AGTAGCAAAG NGTACCAAGT TCAGAACTTT AATAACAGNG GINATTAGGG CAGGTGTTAG GGCCTAGNT AAGNGCTTTG  
 CATCAGTTCT GGATCAGNCT TTTAAATAAC CCTTAAGNG GGGNINAGNC CCTTTTTT

SEQ ID NO:1613: (Length of Sequence = 322 Nucleotides)

ATGTGGAGAT TTGTTGTTGG CTAGGGCAGT CCAGAGGAGA GATATGTGGC AGGACAAGTC TCTACCCAT ACAAAGTNCIT  
 CCGCAAGCC CTCAGCACAT GACATAGGCC CAGAGAAGGA TGCAAGAAT TCTGGTCATA AATTGTTTTT AAATATCAAA  
 TAAATCATAT GTGCACATGC ACAAACATGC CTTCAAACT GAGTAAAACC AGACTCACCT TCAAATATAT CAACAGTTTT  
 NTCAAGCGCC GTTAAAAATC AGGCATOGGA CCTCTGGNIN CGAGAGCTGG TTINATGGGG AAGTTAGATC AACCGTCAT  
 CT

SEQ ID NO:1614: (Length of Sequence = 280 Nucleotides)

AGTATCAAGG GATAAAATAT ATTITTAATT TTGTATTTCA CTTGAAAATT GTAAGNCCA TTTTATAATG TATGCTTGC  
 AAAATAAGTC ATGGAAGCCC TGAAAAATTA GTCAATTCAC TAATCAAAGA AACATATATT AAAGACCTAC TATGCATGAG  
 GCACCATGCT AATTGCTTTG AAGAAGACAA AGTTGAATTA GACAGGGNTC CGTTTACAA GNTATTTTACA ATGCAAGGG  
 GGATACAAGA CATATAAAG GCTATGGAAC TGCCCTTCCG

SEQ ID NO:1615: (Length of Sequence = 393 Nucleotides)

GCGTGGTGGT GCGTGCTGT AAATCCAGC TACTACGGAG TCTGAGGCAG GAAATCCCT TGAACCAGGG AGTOGGAGGT  
 TGCACTGAGC CGAGAGCAGC CCACINCACT CCGCCTAGC GACAGANTGA GACTCCGTCT CAAAACAAAA CAAAACAAAA  
 CAAAAACCA AAAACACTGG GAGTCCCAGT TTGTAGGAAA TCATTAGAT TTTATTATTT GAGCTCAGA ACGAGTGAGG  
 ATGACCTGAT AATTTTGGTT TGGCTCAGT TGTAAATGTT TCTGTTTTG CTOGATGACT ACTAGAACAG TTCTCAACT  
 GTGTGGTGGG TAAGAATCAC CTGGGGACTT TGACCAAGTN ACATGCTAC AACACCGGC CCTACAGGC TCT

SEQ ID NO:1616: (Length of Sequence = 353 Nucleotides)

CCACCCAGC CTCCTTGGAG CTATCCCTTT CTATCCCTCT CCATCCAGC CCTGGCCACC ACCATTATAT CTATTCTGGA  
 ATTCCACAG GAAAAGCAGG CACTTTATTA ATCAGCGAGG GATTACGGC GAAATGAGAC TGTTCTGAG TATAGGCGIN  
 CCGGTTGCT TGCCGGTCT GCGCGCCGNC GGGAGAGCCC GGGCAGAGC AGAGGTGCTC ATCAGCACTG TAGGCCCGA  
 AGATTGINTG GINCCGTTCC TGACCCGNC TAAGTCCCT GTCTGCAGC TGGATAGCG CANCTANCIN TTCTCCACTA  
 GTGCAATCTG CCGATATTTT TTTTTGTGA TCT

SEQ ID NO:1617: (Length of Sequence = 227 Nucleotides)

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TTTCTTCCAT GCAACANTCT GNAGACTTAA GTGGCTTTCT NCTGTACTNC CATAGAACCC ACCCAGTACA TACCTCCAGT  
 GNGGCACTGA TTTTATGCTA TACATATGAC TGTGTGTTC TCTCCTCCAC CAGACTGTGA GTCCCATTTGG AGTAGGAAC  
 AAATTTTINT CAACACTCTG TCTTCATCAC CTCGTGTAGT ATCTGTGACA GAGTAGATAA TGATTAA

SEQ ID NO:1618: (Length of Sequence = 362 Nucleotides)

GGAAGGTTTT TAATGCATGA NGTATACTTG TNATCCTGGA GGTGGAAAA GATTCAGTAA AGATAAAGTT TGGCAAAAAT  
 GATTCCTCTC CTAGGATTTG GGGATATGTA AATCAAACCA AAGGCACATT CTGCAGCTCA CAGCAACCTT CATTTTTTGT  
 CCTAGATTGA GTTATCTATC AAGAATCATT CATTCCTCTC CAGCCCTTGC AACTGTTTTCC TATGACTTTG GACTTGGCCA  
 TGCAACTTGC TTTGGCCAAT ACAATGTGAG TTAATGTGCT TTAAGTGCAT GTAATTAGT CAGTCCCTCC CTCCTTGAGC  
 TTCAACTCTC CACCATGAGG ACAACATTGC CTCCTTCTCT GG

SEQ ID NO:1619: (Length of Sequence = 344 Nucleotides)

GCAACCTCAT CCCAGGTTCA AGTATCTCTC CTGCCTCANC CTCTGAGTA GCTGGGATTA CTGGCGCACC ACCACACCCG  
 GCTAATTTTG TATTTTATGT AGAGACAGGG TTTCGCCATG TTGGCCAGGC TGGTCTTGAA CTCTGACCT CAGGTGATCC  
 ACCACCTCA GCCTTCCAAA GTGCTGGGAT TCAGGCGATG AGCTACTGIN TCGGCCCAA TCTTTCTTAA GTTGTGTCTG  
 GCCTTTGGCA GAAATAGCCA CAAAGNCAGG GTAGGAACGT TTTACTCTTC AAGTGATGAT GGCATCCGAT AANCTTTTAG  
 AGGGAGGTTT TTAAATGCA ACGT

SEQ ID NO:1620: (Length of Sequence = 379 Nucleotides)

GCCAGCGGAA GCTCCTCAGG CTCCACCT CTACAAGCTC CTCTGCTCC AGCCACACTC ACCAGGCCCG AGTTCCACC  
 TAGCACCTTC CCTGGGAATN ATCTCCCCCT GGTGGCTCT TTCTACTTAT TCAGCCTCAA ATGTNATCTC CACTGANAGG  
 CCTTTCCTGA CCTGCTGAGC TTGATTCCCT CCCCTCCCA GTNACATTAC TCCGTGTTAT GGTACCCATC CCTGTCTCCT  
 TAGCTGTGTT TTGTCTGTAT TGGCTCTTCC ACTAGACTGT AAGCTGCATG AGGGCAGGGG ATGTCTGTTT AATNCCAGTT  
 GCTCAGGATA GTGTATGGCT CGTGATAGAT GCTAGNACA TTTTAAAATG GGGACGGAT

SEQ ID NO:1621: (Length of Sequence = 283 Nucleotides)

GATTTGGGGG CTCGGGGAGG CAGAGAATCT CTGGGAGTC TTGGGTGGCG CTGGTGCAAT CTGTTTCTC TTGATCTCAA  
 AGGACAATGT GGATTNGGG ACCAAAGTIC AGGGACACAT CCCCTTAGAG GACCTGAGTT TNGGAGAGTG GTGAGTGGAA  
 GGGAGGAGCA GCAAGAAGCA GCCTGTTTTC ACTCAGCTTA ATTCTCCTTC CCAGATAAGG CAAGCCAGTC ATGGAATCTT  
 GCTGCAGGAC CTCCCTCTAC TACTTCTGT CTTAAAAATA GGG

SEQ ID NO:1622: (Length of Sequence = 356 Nucleotides)

TTAATTTTAA AGCAGATAAT ATTTCAAATA TTTCTTTTGA AATAGACCAT TTGTCTGCC TTGAAGTATG TTAGTACATT  
 TTAAGAAAGT CAGTGGGTTA AGGAGTCAGT GCTGTAGTA TTCATGCTTA AAACACTTCC CTCTACCTA CCTAATAAA  
 TGAGGGGCTC AAGAGAAATA TTCTAATTC TCTAGCGACA TGGCTAATTT TTTTPTTTAA TGTATTTTTG TATTTTTAGT  
 ACAGATGGAG TTTACCATG TTGGTCAGGC TGGTCTCAA CTCTGAGCT CAAGTGATCT GCCTACCTCA GGCTCCTGAG  
 TCACTGAGAC TGTAGTTGTG TGCCACCATG CCAGGT

SEQ ID NO:1623: (Length of Sequence = 361 Nucleotides)

TTTACAGACAG AGTCTCGCTC TTTGCCCCAG GCTGGACTGC AGTGCACCTA TCTCAGCTCA CTGCAAGCTC CACCTCCCGG  
 GTTCAGGCCA TTCTCCTGCC TCAGCCTCCC GAGTAGCTGG GACTACAGGC GCCCGCCACC ACGCCTGGNT AATTTTTTGT  
 ATTTTITAGTA GAGACGGGGT TTNACCATGT TAGCCAGGAT GGTCTCGATC TCTGACCTC GTTGATCCGC CTGCCTCGGN

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CTCCCAAAGN GTTGGGATTA CAGGNGTGG CAGCCGTGCC CAGCCGTGNA GTTAAGATAT TTAAAAANA TCTCTGCAAG  
TTGAGGAAGT NITTCAGGAC TCTTCTCTGC TTAGTCTCAC T

SEQ ID NO:1624: (Length of Sequence = 350 Nucleotides)

CITTTGTGAGC TTTTGTGACCT GCGGGATCCG AGCCAGATTG ACAACAATGA GCCCTACATG AAGATCCCTT GCAATGACTC  
TAAAATCACC AGTGCTGTTT GGGGACCCCT GGGGGAGTGC ATCATCGCTG GCCATGAGAG TGGAGAGCTC AACCAGTATA  
GTGCCAAGTC TGGAGAGGTG TTGGTGAATG TTAAGGAGCA CTCCCGGCAG ATCAACGACA TCCAGTTATC CAGGGACATG  
ACCATGTTTN TGACCGCGTC CAAGGACAAC ACAGCCAAGC TTTTGTGACTC CACAACCTCT GAACATCAGA AGACTTTCCG  
GACAGAACGT CCTGTCAACT CAGCTGCCCT

SEQ ID NO:1625: (Length of Sequence = 333 Nucleotides)

GTCTCTGTG AGACAAAGAA ATTATAAGA TGGCAGAAAT TATTAGCGAC GTTCTACCTC TATAATTCAC GTTCCATGAA  
TCAGTACTTC ATTTCTTTT TATGGATGAA TTAATATTCC ACTGTACAAA TATACCACAT CTGTGTTTTT CATTCGTCTA  
GGTTAAAAA TTTTATTTT TATTTTATT TTTTGTAGA GACGGGATCT CACTGTGTG CCCAGGCTGG TCTTGACCTC  
CTGGGCTCAA GTGATCTCC CACCGTGGCA GTCCAAAGTG GGTAAACTGT ACGCTGTCT GAAAGACCTT GCTGAAGAGA  
GAAGAGGCAA GCT

SEQ ID NO:1626: (Length of Sequence = 314 Nucleotides)

GACTGTCCGT GGACTCTGT TTTTAAGCCC AAGAACTGAA TATACAGTAG CAGTGCAGAC TGCCTCAAAA CAAGTTGATG  
GTGATTATGT TGTGTCTGAA TGGAGTGAAA TTATAGAATT CTGCACCGCA GACTATTCAA AAGTTCATCT AACACAATTG  
TTGGAGAAGG CTGAAGTGAT TNCAGGACGC ATGCTTAAGT TTTCTGTTT TTATCGTAAT CAGCACAAG NATATTTGA  
CTATGTTCCG TAAGNTCAA AAATATATAG TGATTGTIT TACTAAATAT AGTTTCAAAT TCTAGGCTCA GGGT

SEQ ID NO:1627: (Length of Sequence = 375 Nucleotides)

CCCTGGGCAC CTGGTACCTG GGGACCTACA AGGTGGTGAG GGAAGGGTAC GAGTACATTC CTINTCCCTC TGACCTGGGC  
GCTAGAAGGG CAAAGAACCC GAGCCTGCCA GCTTGGCTC CTCCACAGC CTCCCTCGGA GGCATGCCAT GCCAAGCACT  
CTTCTGTCT CTGTTCATGA ATAAAGAGA TGGATGGCT TATCTTTATA GAGAAGTGAA TTTCACTTAC TCCCCTGGCC  
CGAAAACIAG ACCAAATGAG GAACGTGTTT AGCTCATCAA ACTGTTATAT TTATTTTCAA CAATGAAAAC AACACAACAA  
AGTGGAGTCA ATCCACTAAT TTTTATAAT CTAACACAAT TGTTGCACA ACAAT

SEQ ID NO:1628: (Length of Sequence = 434 Nucleotides)

TGCACAGGCA CACCTCACT CTTTATATCA TTTTCTCCAT CTTTCATTTC CCATCTGTAC CTCCAAAATT TTGCTATGAA  
TCTAATTCAT CTTTGTCTC TCTCTCAT GGGTGCCTTT GCTTCTGCCA GTCTTCTTC TCTGCCCCA CCCAACTTC  
ATGAATTAGT CTTTCTCCC AGGAGCTCTG ATTTCTAGAC TGCTTTGAAA ATGCTGTATT CATTTTGCTA ACTTAGTATT  
TGGGTACCT GCTCTTGGC TGTTCTTTT CTGGAGCCCT TCTCAGTCAA GTCTGCCGGA TGCTTTCTT TACCTACCC  
TCAGTTTTCC TTAAACGNG NACACAACCTC TGGAGAGTGT TAAGNATAAT GTTACTTGGT AATGTGTATT TATTGAGGAT  
TGTTGTGCTA AGAATGNGTA GGTAAATA GGG

SEQ ID NO:1629: (Length of sequence = 341 Nucleotides)

CCTCAAAGCT GCAGGAGGT GGGGGTGGC GGCAGACAG GTGGGGTCCG CATCCGGTAC CATTACAGT AGCCTCTCT  
CTCCACGGT GGTGCTTGT TGGGGCTGTG GCCAAAGTGT TTGCCCGCC CTTGACTGTA TCCCTCCGGA GCTGCGAGG  
ACTGCAGAGA GGGCCTGGCT TGTCCCTCT AGGAGCAGCT GGGNNGGTGT CTTGCTGCA TCCCTCTCA ATGGTTGAAA

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ATAATGATTC CACTGTGCAT GAACACCATG AAGGTATCTT GGCAGCCAGA GTCACCTCTG TTCCCGAAGT GGGAAACCTN  
GGGAGGGTCC TCAAAACCCC T

SEQ ID NO:1630: (Length of Sequence = 380 Nucleotides)

CATAAAACCA TCCTACGATG TGCTGCTGCT GCTGCTGCTG CTAGTGCTCC TGCTGCAGGC CGGCCTCAAC ACGGGCACCG  
CCATCCAGTG CGTGGCTTC AAGGTACGTG CAAGGCTGCA GGGTGATCC TGGGACACCC AGAACGGCCC GCAGGAGCGC  
CTGGCTGGGG AGGTGGCCAG GAGCCCCCTG AAGGAGTTCG ACAAGGAGAA AGCCTGGAGA GCCGTGCTGG TGCAAATGGC  
CCAGTGACCC CCAGACGGG AAACCGGGTG GCAGCGCCAG CCTGGGCCCA GGCATGGAAA CGGACAAACC CTAATCGCCT  
TAGCTACTGC TTCTAACAAC TCTTTTCCCT TGTTTAAGG GAAACCAGT TCAAGGGGGG

SEQ ID NO:1631: (Length of Sequence = 383 Nucleotides)

AGAGGATTTA TTTGGACAGG GCTGTGCTGA GAGTCCCACC CTCACCCAC AATGGGCGGG GGCCTGGCA TCGAACACCA  
AGCTGAGTGA GAAGGGCTCC TCCAGGCTC GCAGGGAGCT TGCTGGCTTC TCCTGGCTCA CAGCAGACTG GGCCCGACTC  
CCATCGGAGG AAGGCCAGCA TCCTAGGGCA GCCAGTGGAG GGCTGGCAGA GGGCTGTGCC TNGAAGGTCA CTGTGCTATC  
TTCCAACCAC ACTGTGTGAG TCTCAGATAC CATATGTGGA ATCTGCATCA GGAAGGTCAA CTTGAGGTCA TTTTAAAGG  
GATTCTTCOG GNAAGAGGAG CNCCGCATCG GCGNCTTAA NCGGGGTTT CGGTTCATCC CGA

SEQ ID NO:1632: (Length of Sequence = 424 Nucleotides)

GGGAAGTGAG CTCTGAACC AACTCTGAAG GAGACACCCA CTGCTAAGC CAGTCTCACT CTAGGACACC TGCCTAGCGA  
CCAGCAAACC TGGAAAGAAA GGGCAAGTTC CTCAGTGGCC CCTCTGCATC AAAGGGAGTG GCTCTGCCCT CTCTAGTCTC  
TGACTACCTG CTTAGTGATT TTGCTTCTG TGCTCCAGA CCAAGAAAA CCACTCTCT TTTCTTCTT CATGACTCA  
TCCCTTCTT ACCCTATATT GTCTCTCCA CTCTCTGCT CTGCTGGCCA GGCTTAAATC TGGGCCACCA GCCTTCTGG  
GACATACCTA TTTCGCAAC TGAACCTTC CAACCCCTAG GAAACAAAG GTATTTTACA AGGCCTCTGG ACCTTGACCC  
AAAGAGGCAT GNACCATAAT TACT

SEQ ID NO:1633: (Length of Sequence = 417 Nucleotides)

TTTTTCTAC AGCATCTTTT TATTGTCTTT ACCATTACTT TAATGCATTT TAAATTTTAT CTACATTAAT TGGGAACAT  
TTGCATTTTT TTATCCTCT CTCTCTTTN CTTTNCITTT TTTGGATTT GTCTTGGCCA GAGAGGTCT CCAACACCG  
GGTGGACTTG GAATTTTTTA TCAGCTGCAA TCTGAAGACT TGCTTTACT GTGGAATAGG TGACATTCCT TTAGGACCTC  
AGAAGCTCAA GTAGTTTAAT GCCAAGTCTT TCCAGAGCCT CACTCTCTT TATTTTTTAA ATTAGAATTG TGATTTATTG  
AAGNCTTACC ATGGGGTTCA TATAATTNT NAATNGANCA GCTTATTGA GGTATAATTC AATACCCCTT TAAAGNATGT  
AACCGTGGG TTTAGAC

SEQ ID NO:1634: (Length of Sequence = 423 Nucleotides)

AATATCCCAA ATGTGCAATG CATCACCTGA GACAGAAGGC AGAAGCATC AAGCTCTCTG TTTATCCCAA TTCAATGACA  
ACCAGAACTT ATTTTTTTTG AGATGGGGTC TGGTCTGTG GCCAGGCTG GAGTGCAATG GGGCATTCAT GGCTCATCGC  
AGCTTCCAAC TCTCAGTCTC AAGCAACCTT CCTACGTCAG TGCTCTGAGT AGCTGGAATC ACAGGCATGC ACCACCAC  
TTGGCTCATT TTTAAAAAAT TTCTGTAGA GACAGGATCT TGCTACATTG CCCAGGCTTG AGGTGCCGTG GTGCATTCAC  
AGTACACCG AGCTCAAACT CTTGGTCTC AAGGATCCT CCGNCTCAG CCTCTGGGT GGGTGGCT CAGGCATACA  
CCACCATGTC TTGGTCAATT TCT

SEQ ID NO:1635: (Length of Sequence = 384 Nucleotides)

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CAAACTCAC TTTGACCCCA TTAAGAGGCA AGCCTGGCAC ATCTATCCCT GGGCCTTTAG AAAGCCATTT GCCTCAAATG  
GCTATAGGT TGTGGGGTGG AGGGAGGAAG GCCTGGGAGG GAGTNGGGAG GAATGTCTAG CTGTAGTGTG ACACATTGTA  
GTGTTTGCCA GGAATGAGC CAGACATGGT GGTGTATGCC TGTAGTCCCA GCCACCCAGA AGGCTGAGGC AGGAGGATCG  
CTTGAGACCA AGAGTTTGAG CCTGCGGTA GCTGTTAATG ACCACGGCAC TCAAGCCTGG GCAATGTAGC AAGATCCTGT  
TNTCTACAAG AAATTTTTTA AAAATGAGC CAAGTTTGGG TGGTGCATGC CTGTAGTTCC ACTA

SEQ ID NO:1636: (Length of Sequence = 362 Nucleotides)

CAAAATGACT GACTACAGCA ATGCCCTTCG TGTGCCCCAC ACATCATGAG CACCGCAAGA GACAAAAGAT TAACTATGAA  
ATATAGTAAT CTAAGCAAGC CCACACATAC ATATTTTGGG GGATTTCCCA CCATCCTGAA TAGTATCACT GCAGTTGACA  
CAACTTCCAG GGAATGCGAG AGTAAGTGCT TAATATTATC CACGAGAAAG CAAAACATAA TATTAGTGTG CACATTTCGT  
AATGAGAAAC TAATGCTTC ATTGATTTC AATATGTAGT GGNAGNAAAC TATTTAGAT CTCTACAATG CCTAAATGCA  
TTCATTTAA ACTCAAGGA CTATTTTCAT TTTTACCATA CT

SEQ ID NO:1637: (Length of Sequence = 205 Nucleotides)

GGGCCCCGAC GAGGCTCAGA CCTCTTNIAC GNOGACTACT ACGAGGAAGG CGAGGTGGAG GAGGAGGCCG ACAGCTGCTT  
CGGGACGAT GAGGATNACT CTGGCACGGA GGAGTCTNA CACCACCAGA ATAACTTGC CGAGTTTANC TCCTAGGGC  
CGGACCCGTG GCTCCTTAGA CGACAGACTA CCTCACGGAG GTTTT

SEQ ID NO:1638: (Length of Sequence = 253 Nucleotides)

CATCAGGCT CACGCTCTG CTCTCTGCAC CAGCCTTCC AGAGCATNCC AGTNCATG GCTTCATCTG TTAAGTGTG  
ATCACTTCAG TCTGATTTT TAGACCTAAA TGGTTTCTT AACGCCATTC TAACTGCTG TGAATCATTT TCCTTACAG  
TGTTTATGT AACGCCAAAC CAACAAATCA CAGGTGCTTG CTCTGTCCA TAAATCTCC CAGTCTAAT TTTTGTCAAT  
CAACATGRCT CGT

SEQ ID NO:1639: (Length of Sequence = 360 Nucleotides)

TGTGGCCAAG GACCTATCG TCAATGTATG GTACTCTGTG AATGGTGAGA GGCTGGGCAC CTACATGGGC CATACGGAG  
CTGTGTGTG TGTGGAGCT GACTGGGACA CCAAGCATGT CCTCACTGGC TCAGCTGACA ACAGCTGING TCTCTGGAC  
TGTGAAACAG GAAAGCAGCT GGCCCTTCTC AAGACCAATT CGGCTGTCCG GACCTGCGGT TTINACTTTG GGGGCAACAT  
CATCATGTTT TCCACGGACA AGCAGATGGG CTACCACTGC TTTGTGTAGC TTTTTTGTAC CTGCGGGATC CGAGCCAGAT  
TGACAACAAA TGAGCCCCTA CATGAAGATC CCTTGCAATG

SEQ ID NO:1640: (Length of Sequence = 321 Nucleotides)

GTGGGAGGCC CTCTGCCTG TCTGAGAGC AATGTCTTCT CCATGGGGCA GCAINGGCC TGGATGGGCC TGAGCATAGC  
AGACCACTG GTACATGTG CATGTGTGGA CATGTGTGCA TGTGTGGATA TGTATGCTCC TGAATGTATC TGCAATGCTT  
NCTGCACAC ACAGTGTCTC CCTCGATGC TGCCAGCTG TGGTGGACTT CCTCTTCTGA CCCCCTTCTT GCNCCGGNC  
TGTTTATCA GTGAAAGGAC TTAACAAAGC AGATCTCCAG GTTACCTIN TGGAACTCAG CTCAAGGTNA GCACAGCAGG  
T

SEQ ID NO:1641: (Length of Sequence = 266 Nucleotides)

GGTGGTGCCA CTGTGTGAT AGTTTTCCTC ATCTTAGTAG CGNACCCAT AATTAATGCC TACTCACATC AAGTTAGCAC  
CACTCAAATG TGGCCATTC ACAGGCAGC AGGGATCTC TTGNCCGTG AGGTGGGGG CTTCATCAG AATGCAATC

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TROCGAGGCG TGAAGCACAA TTTAKITCAA CTGCCATKTK TTCCTTCACA GTAAGRCCTT CTGGRGGAAG GAAGCAGTGT  
GTTTGAGTTA TACCTTAGGC CAAGCT

SEQ ID NO:1642: (Length of Sequence = 295 Nucleotides)

AAAAGCCCCA GCCTCAGGAC CCGGTCACA GGCACCCGGG GGIGGGGGTG ACCAGCAGCA GTTCAGAGGC AGGTGTGGGC  
AATGTGGGCC TGAGTCTCCT NCCCACTCAC GTCACINCCC GCGGGGACAC AGCGGCATTT NTGGGGCACT NGGCATGCCG  
GGTTCCTAAC CTCAATTATT CATTCTGCTC TCAGGCACCT CCTGACGAGA CCCTGGCCCA GGAGAGCTCG GCTCGGGGAC  
AGAGGAATGA GACTCAGTGG GACGCAGAGN CCAACCCCAT CCCACCCCT GGGCT

SEQ ID NO:1643: (Length of Sequence = 359 Nucleotides)

ATCATTGGTA GITTAAACTT TTCATCTAAT ATTAGATTGC ATGCAGGATT TTATATCTAA TTACTCTGGC AGATGGCCTT  
TAGAAAGTTC AAAAATAAAA TGCAGCAATT CATATTGGCA GATTTACTAT TGAGACCAAT GCTTTCCTAA CTAAAAGGTT  
TTGTTTAAAA TCGTTAGTTT AGGAAATCTG ATAAAGATT TGAATATCA GAGCGTTTAA AAGAGATTCT TACTTTACAT  
CTGGCATATT TCTTGTTGTA CATATTATAA TTCCATTGGA ACATGGCTGT CTGTAAACT ATGTATATGA TCGGAAGAG  
ACTCAAATTA AATTAAGGTT TAACAGCCAT CAAGTTCAT

SEQ ID NO:1644: (Length of Sequence = 293 Nucleotides)

TGAACCCGGG NGGCGGASTT GCAGTCAGCC GAGATGGCAC CACTGCATC CAGCCTGGGT GACAGAGCCA GACTCTGTCT  
CAAGAAAAA AAAAGAATTA AAAGATGTGA ACAAAGCAA GAAAGTGCTG TATGAACGAA ACGGAAATAT CAATGAAGAG  
AAATAAAAAT TATAAATTC AGGAAATGAG ANGTACANTA NCAGNAAATT CACTGGAGAG ATTCAAAGC ATATCTGAGC  
AGGTAAAAA AGTAGTGAAC ATGAGATAGG TCAAGGGAAA AGTACTGAGT CTG

SEQ ID NO:1645: (Length of Sequence = 332 Nucleotides)

AAAAGCTGGA TATTAGGAAA TGTGAATATT AATTCTGAAT TTGTTACTGA CTCAGGATGA CCTTGCATGA TGCATCCAAC  
CTTCITTTCT CTATATCAGA AACTAAAGA ATAAATGTAA CATCACATC TTTCTCCTT TGGGACAAAC AACTATGTAC  
AATTGAATAA AAATGAAATT GCATAAGTNG TGGATAGAAT ATGTTTGGGT TGGTTTGAAC TTAGCACACT GTTTAATAAT  
TCAACATTTT TTATACCTGT GCAATAAATT TTAAATGAT GTCTGAAATG CTTTGAAATC TTCAGAAACA GTTTTATAAA  
TGGCATAAAA AA

SEQ ID NO:1646: (Length of Sequence = 210 Nucleotides)

GAAAGTNCCT CCAATCACTC TCTGCACAAT GAAGTGGCGG ATGACTCCCA GCTTGAAAAG GCAAATCTCA TAGAGCTGGA  
AGATGACAGT CACAGCGGAA AGCGGTGGAA TCCACATAG CCTGAGTGGC CTGCAAGATC CAATTATAGC TCGGATGTCC  
ATTGTTTCAG AAGACAAGAA AAGCCCTTCC GAATGCAGCT TTGTTAGCCA

SEQ ID NO:1647: (Length of Sequence = 246 Nucleotides)

TCCACTCCAA GGGTTTCTGA CCCAAGAGGT GGGGACCAA ACCATGCATT CCTAAGAAGT CCCAGGTCA TGCTGCTGTT  
GCTGGACTGA GGACCACACT TTGAGAACT GTGCTCTAAG TGAATACITG GAAGTCGTTT CAGGACATGG GGCATAGAAA  
CTNAGGAGTA GCTGAGAGGA AAATNAAGAG AAGCTGAGAA GAAGCTGAGG ATCCTCACAG GAGCAGACAG AGAAATGTGA  
AGGGTT

SEQ ID NO:1648: (Length of Sequence = 338 Nucleotides)



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TCCACTCCAA GGGTTTCTGA CCCAAGAGGT GGGGACCAA ACCATGCATT CCTAAGAAGT CCCCAGGTCA TGCTGCTGTT  
 GCTGGACTGA GGACCACACT TTGAGAACCT GTGCTCTAAG TGAATACTTG GAAGTCGTTT CAGGACATGG GGCATAGAAA  
 CTGAGGAGTA GCTGAGAGGA AAATGAAGAG AAGCTGAGAA GAAGCTGAGG ATCCTCACAG GAGCAGACAG AGAATGTGA  
 AGGGTGGGGT TTTATGINTG GGAAAGGGAC CCGAAGCCCA GGCTGAAGAG TTTTAACITT GGGCCAGAA ACTCAACCAT  
 CAATGGAAAC AGGGCAGT

SEQ ID NO:1649: (Length of Sequence = 275 Nucleotides)

GCACCTINAG GATTGAGACC CGGAAGGCTT CAAAGGCTGT CGCAAGGAGG AAGAACTGGA AGAAGTTGGG GAAGTCAGAG  
 TTTGACCCCC CCGGACCCAA TGTGGCCACC ACCACTGTCA GTGACGATGT CTCTATGACG TTCATCACCA GCAAAGAGGA  
 CCTGAAGTGC CAGGAGGAGG AGGACCTAT GAACAACTC AAGGGCCAGA AGATCGTGTG CTGCCGCATC TNCAGGGCG  
 ACCACTTGA CCACCCGNTG CCCCTACAAG GATAC

SEQ ID NO:1650: (Length of Sequence = 270 Nucleotides)

AAAAGCCAGA GGGATGAGAA TGAGAAAGTT AAAAGGGAGG TCAGGAAAGC CATCTTTTAG GAGAAATATA AATNGACAAT  
 SCTTTAAAAA AGGAGCTGCC ATCATATTAT ACCCTGACCC AGCTGGATA GAACAAATTC AGCCTTGGCA ATGCAAGTCT  
 TACATCTATT TTATATAGAT TGTATAAAG AGAACTGGAA GCATTTTCAA GAGGGGTATG TATGTGTTTG TGTGTGCTG  
 GTAATTAATG AAAGAGAGGC TATTGAATTT

SEQ ID NO:1651: (Length of Sequence = 372 Nucleotides)

TCTTGCTTTT TAATTGTAAT TCTTAACACT AGAATTTTCT ATTTCAAGTT TTGTACGTG GCCTTGCGTC TCCITAGTAC  
 ATTTTATAGT CGCTGTAAAT TGATTCATT TTTCTTGAAA TTGAATCTC ATCTGACCTA ATTTCTTCTT TGAATCCTAC  
 ATCTACTTT CTCAATGGAC GCAGTGACG AATGAAGCAT CCAGCAAAGC TTTTGTGTT GATTGTTTGA GAGTCACCC  
 TGTPTTGTG GAAGTTGTCT CACAACACT TCTCTTCTG CTTTCTCTCT TTCTATTGA CATGTPTTT CTTTCAAAT  
 GGATTAACIT TATTGATCAT CCTCTGTC TCTAGCAA AGACGGGTGC TT

SEQ ID NO:1652: (Length of Sequence = 314 Nucleotides)

TTTCTGAGTA TGCTGCACTG GATTATTAGC ATGTTAAATA GTCAAGGGA CTGGAATAAA CATCAGGAAG ATTTCATAAA  
 GTGGTGTAAG TAGAAAAAA AGGTTAAACA ATGAGCTGCA TGTGATAAG TATAAGACAC TGATCCAAGT GGTGGCTTCT  
 GAACATGAT ATTACTTAAN CTAGAGTGTT AAGGTCAGCT TAAGTCAAAA TAAACAAAG CTTCCAAACC CTCATTTTAA  
 ACACAGTAGA TAATAGATGA NCTTGTATC TTGGGAGATA GTACAAGCCA AANGTTACAG CTGTGTTAAA ACCT

SEQ ID NO:1653: (Length of Sequence = 323 Nucleotides)

TAGATATGAT GGCTGGAGCT GCAATAGCTA ACTTGCAACT ATGAGGAAGT ATAGGACTTT GGTCTTAACA TTCTGAGCT  
 CCTGAATCAA TACTTAACT ACCTTCTATG AGACTTCTTG TCACATGAGA AAAATTAAGC CCCAAATTA ACCCTTGCT  
 TINACTGTAA CTCTCAATTG AGCATAATTC CTAAATGNT TAATCAATTC TACTCTACTC TGGCATGATT TTNAAGGCAT  
 TAACATAAT TTCTTCCAA TCTAAAAGG GAACANTAC TTACTGGAGT ATCTAGTATA CATCAGATAC TGIGTATATA  
 GGC

SEQ ID NO:1654: (Length of Sequence = 352 Nucleotides)

ATCTTGGCCT GCAGGAACAT GGCAAGGGG AGTGAAGCAG TGTACGGCAT TTAGAAGAA TGGCTTAAG CCAAGCTTAA  
 AGCAATGACC CTGGACCTOG CTCTGCTCG TAGCGTGCAG CATTTTGTG AAGCATTCAG GGCCAGAAT GTGCTCTTC  
 ATGTGCTTGT GTGCAAGCA GCAACTTTTG CTCTACCTG GAGTCTCACC AAAGATGGCC TGGAGACCAC CTTTCAAGTG

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AATCATCTGG GGCACCTCTA CCTTGTCAG CTCCTCCAG GGATGTTTG GTGCCGCTCA GCTCCTGCCC GTGTCATTGT  
GGGTCTCTC AGAGTCCCCA TCGATTACA GG

SEQ ID NO:1655: (Length of Sequence = 325 Nucleotides)

AGGGTAAATT GTGAGACTGT TGTATATAT TMTTGTTA TAGTTTTTG TTGTGTAT GTGTATNT TTATTATAA  
AATGATAGAT CTGTGGGTAG GTTCTGAGAA ATGAATAGCT TGTATTTCT TTTTATGAA AGAAGAACAA AATGAAGTTC  
AAGTGGAAAG TATCTCCAGA AAGTTTAACT TTTCTTATT AACCACTCA TTGATTGGCA TGTGAACTT GAGATATTT  
ATATGCACT TTTAAATGA GGATCTAGCT TCACTATATC ATACAACCAC ATTTAAAATA GCCAGGTCCA TGGTCATTAT  
AGGGG

SEQ ID NO:1656: (Length of Sequence = 285 Nucleotides)

GAGGNTAAT AGAATAGATC AAAGCAGAAT GCAGTGTGT CATGTCATAG GTTGACTTCT CCAGGAAACC GACCCCAAGT  
GGAAGGTTA CATGCAGGTG GTTATATAGA GAGTGTGT GGAAGAACA CCTGTAAGN AAGAAGGGAG CCTGGGAAGA  
GCAGGGNAG AAGGTGAAT CTGATTCAT TCAACAGAG TCCTAGGCTG AGTGCATGGG ATNCTGTAGA GTTGGGGATG  
GACCTTCAGA GATATTCCA ATAGAGAAAG AATTCCTGT TACTC

SEQ ID NO:1657: (Length of Sequence = 385 Nucleotides)

GACTTGACTT TGCTTTTTTC CCCCCAAGTA GAACATATGC TAGCTTCCAG CTGAAAGTA AACTCCAGT GTGGAGTGAA  
TTTTGTGTCT AATTATAAAC CTGTAACAA AACTCAGACA TCIGGTACTG GTCTTTGCAT TGAGATTGGT CCCTGTAAAA  
CCCCCTTAA AAGCATATTG CATTTAGTAC AGAGCTCTTT TTGAAATGN AGGCTGGAGA TGTGCATTTT TCACGGTGT  
AACTGGTGT ATCTTATTAG CAAGGAGATT GGGGGTTTG AGTGTTCG TGGGTGGGT TCAATTTGC CAGGGGAACC  
AGTGGGCAGG CTGCTAGCAA GGCAGTGAGG AAGCTCTTG CAGCCAAATG GGTGCAATT CAGG

SEQ ID NO:1658: (Length of Sequence = 338 Nucleotides)

GATCAGACC TCTCTTCT CCAACACTG CCAAGAGC CGTTGTAA ACGTTTACCA GCACACTACT GGGCTGTTTC  
TCTACCACTT GATTGAAATG ATCCTATGG AAGCACAAT GACTTCACTG TCACTAAATC CAAGGGACAA TTTTATGCT  
CTATTTTCT TCAACTCTCC AGGATGTTG AGAGCTGATC TTCCCTCCC TCTTGAGCCT CCTCTCTGC CTGGCTTTTA  
GGGTCTCTG CTGACTTTT TCAATTTCT AACACATG CACAGGGGT CCTCAGCCT GCAAGGCCNA TGCAGTGGT  
ACCCAGTCT GTGGGCT

SEQ ID NO:1659: (Length of Sequence = 346 Nucleotides)

AGTATGTGAA GTCAATCACT TTTATATGC AGATAATATG CGACTTATAA TGAAGGTCA CGTTTCAATA GCAACAAAA  
AAGCTATAAG TAACAAAGAA TAACAAACT ATAAATGTAT AGGCTCTACA TAAAGAAAC TATAATTCCA TAAAGGATCT  
AAAATAAAC GGTAAATGG AAAGACAAGA TGTGTGTGA GATACGAAGA ATCCATGATT AAGTTAGAGG ATTCTTGGAT  
GACAGTAGAG TAGAAAGCAC CAAGAATGAG TCTGTATACC CAGAGAACAC TTACGCTGGT AGGAATCTAT CTCATACAAC  
TATTATGGAG CTCTCAAAGT ATACTG

SEQ ID NO:1660: (Length of Sequence = 240 Nucleotides)

GATAGAATAG CAGCCTTC ACTGAATGC ACTGCCATAT TGTAAGCTG CATTCCTTAA GCATCACTT TTAGAGCCT  
CAAGCTCTC GGAATGTTT GATGACTTAA AGGGGAAATG AACAGTTGC AATNATGCT GTCAAGTCT TTTGTGAA  
CCTCTATTG GACAATCAC AAAAAAAG AAAGCAGCTC ATTTCTAAT TCAGGATAT ATTTCTTTT AAACTGGTA

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SEQ ID NO:1661: (Length of Sequence = 294 Nucleotides)

AGCACCTCCC CTGAGGGCCA GGCCTTGGAG AACCGGATGA AGCAGCTCTC CCTACAGTGC TCAAAGGGAA GAGATGGAAT  
 TATTGCTGAC ATAAAAATGG TGCAGATTGG CTGATTATC CTGGGCCCTG GCGATATGC ATATCAACAT TTATACATGG  
 AACTGTGAGA ACATTKTGCC AATAATCATT TAATATATGC CAAATCTTAC ACGKCTACTC TAAACTGCTC TAATGAAGTT  
 TCASTGACCT TGAGGGCTAA AGATTNTTCT TCTGGTGTA GAGCTCTTTG GGCT

SEQ ID NO:1662: (Length of Sequence = 291 Nucleotides)

GATTTTCATC AGGCAAATNA AAGTAACCAC AGAAACAATT CAGTAATACT ACTAAGAGAG ATTAACCTCC CACTGGCCTT  
 GGAATAGCTA AGTGCATTGA TTTIKGIGTA GTTGTGAGTT TTTTCTYTC ATTGATATTT TACGTATTTC TGGGGTAAAT  
 GTATTTTWA CATGCATTGA ATGTGTAATG ATCAAGTCAG GGTATTGCGG GCTCCATCA CCTGAGTGT TTATCATTTT  
 TATGTGTGGT AACATTCCAA GCCCTCTCTT CTAGCTTTGG AATATATAGT G

SEQ ID NO:1663: (Length of Sequence = 345 Nucleotides)

GGCAGTGGGA CTCTCTGTGG ATAGACTGAT TCTTGTITAG AAACAACAGC AAAAGAAGA AGGCAGGAAA GAACTCCCC  
 GGCTGGGAGG AATGTCTCTG TGATCCCAT TCTTGATGGA GGGAGTGAAA AGGGGCTGG NCTTCGCCC GTCCTCTCT  
 GACAGAAACA GTAAAGTACA CCAGGACAGA AGGCAGGAGC CCTGAGAACT CACGGGCTC TGCATGGTCT CCAGCCNNC  
 ACCGCTCTCC AGCCACCCCT GGAGCGGCG TGGGGAGGCG GCAGAGGGGG CTTTTCGGAG GGCCACTAT TNCACACGT  
 CTTCTTTTNG ACACCCAGAA AACTT

SEQ ID NO:1664: (Length of Sequence = 334 Nucleotides)

GTAAATAGA AAGTGAAATA ATTCCATATA TGTAAGGTTG ATAGAAGATA ATCATCAGGG TCAGAATTAA GAGGTCTTGT  
 GGTTTAGGAA GCATAAAATT ATGTAACTTA TTGTTTATTT CACTCAGAAA ATAAAGTAT TAATGAAAGG AGTTAGAGAT  
 GAACAGATTG ATACAACTG TTCTATGGTT TACAGCTTAA AAAATAAAGG TACATTTAAT GCTATGCATT TTGAGAATAA  
 TGCTTTTAT GCINTTCTT TTTACATATG TATCTNTTGG TATTTAAGGT CAAATAGAT TGACATTACT AATTACTTCA  
 CTATTAATAA TTAA

SEQ ID NO:1665: (Length of Sequence = 310 Nucleotides)

TGTACTINCTA TGAAGCATCC CTTCACATC AGATCAAGA CATCTTAAAG CCAGAAATAA TGGAGGAGAT TGTGATGGAA  
 ACAGCCAGA GGCTTTTGGG ACAGGAGGGA TAAGGAGGTG CTCCAGAAGC ACGGGACTNT GGACCTTGCA GGAGTGAAGA  
 CTGTATGTG TGGTCCCAT ATGTGGCTCA GCAAGACTC GAGAGATCAT CCTTTGTCT GCATTGAAGG CCTGTGAGG  
 GCTCCAGCC CACAGGCCTG CTTCTCTCTG TCTAACACC AAGCCTGGGT GGCAGATGAA CAGTGCTTCC

SEQ ID NO:1666: (Length of Sequence = 352 Nucleotides)

TTTTTTTTTA CATACAAAGT TTGGATTTT ATTGAAATCT TGTTAGGTAT CAAACAAAT CTGCTTTCTT CAGATAAAAA  
 TATTCTCTCA GATGCTCCA GATAACTGCT AAGTCTAAAT TGGTCTTCA ATGCTTTAT TTATATGTCC TCGTGAAATG  
 TTCAATACA GTTAAGATGT TCCCAAAGG ATTTTTATCG TGTAAGGAG CGTACATGAC GACCTCTACC ACTGCTCCA  
 CTAACAACT TTCTCTTGA GCTCCACTG CCGCTATTG CACTAGCCA GGAAGGTCC AAGTCCCCA CGACCTCTAG  
 AAGCACGGTT CCGAGGGACT TTGGCGTAA CC

SEQ ID NO:1667: (Length of Sequence = 287 Nucleotides)

GACAAATAG CCGTGCCCA CATTTTGGTC CATCTTTT TTATTATGC TTCCTTNT TGGACTGGAT AGCCAGGGAT  
 GTTTCANCT CCGCTCGTC AAGTACGTAC CCTGACCTA CAACAAACA TACGINTACC CCACTGGGC CATTTGGCTG

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GGCTGGAGCC TGGCCCTTTN CTCCATGCTC TTNGNTCCCT TGGTCATCGT CATCOGGCCT CTGCCAGACT GAGGGGGCCG  
TTCTTTTGIG AGAGTCAAGT ACCTGCTGAC CCCAAGGGAA CCCAACC

SEQ ID NO:1668: (Length of Sequence = 300 Nucleotides)

CCAGACAAAT ACCAAGTTTA TTTCACAAAC ACTAGGAAGA TGGGTTGAGG GTGGAGGTGG GGGACACAGG TGCGCANTGC  
ACAGAGTCAG CAGCAGCAGC CTGNTCCCCG CACTGAGGAC TCGGCCCTGGA CTGCAGTGCC TCCAAATCAA CACGCAGCAA  
GAGGGGAGTN CAGNGAGGGC CCTNAACACC AAGCCTCTGA AAGGCTAAGG GACACAGCTC CATCTGTCCC AGGAAAACCA  
GCAATAAATA AAAGTINNGC ACGGCCCCAC CCACACATAT CATCTAGTCA CCCATCTTCA

SEQ ID NO:1669: (Length of Sequence = 334 Nucleotides)

TTTTAATGAC AGATTTTCCT AAAAGAAACC ACTATAACAT CTGTCCAAGT ACTCCAGAGA AAACAAAAAA TACATAAAGA  
TTAAAGTCT ATTACTTTAA CAGCACATTG CCAACACCG ACAACTAGGA TAAATGCCAA GAAACCTTAA AAAATAACTT  
TAAAAGATGC AAGTTCAAG CCATTCAAAC GCGTAGGTTT CACAAACAAC AGGNNACAA GTCCAAGAGC AGTTCTACTT  
GTGCATGATG GTAACTCAGA CTGTACTTCA TCAAAGTTCA TTCAGGTGTT TCATAGGCGT CTGAGCAGAG TTTTGTTTTT  
TCTTTTCCTT GCTT

SEQ ID NO:1670: (Length of Sequence = 287 Nucleotides)

GATAAAAGAG AAACAGCGAA GTTCAAGAG AAAAAGTTGA GGTCTTAATA ATTNTGGGC AACTTGACAG CAGAACAGGG  
TAAAANTGAG TTAGCTACAA AGGCTCATCA GAAATGGCA ATAGATTCCA GAGAGATTTA ATAAGTACTT ACAAAGTCTG  
CTATAGGTGA CAAATCTGAC CATGATAAAA GCACCGTAA TGATATAGGT AACACTGNGC ATATGAAAAC TCAGACTGTG  
CACTAGATAA AAAGGAANCC CAGCATACAG TGTTACCACA TGTAAT

SEQ ID NO:1671: (Length of Sequence = 187 Nucleotides)

GATAAAAGAG AAACAGCGAA GTTCAAGAG AAAAAGTTGA GGTCTTAATA ATTTTGGGC AACTTGACAG CAGAACAGGG  
TAAAANTGAG TTAGCTACAA AGGCTCATCA GAAATSGCA ATAGATTCCA GAGAGATTTA ATAAGTACTT ACAAAGTCTG  
CTATAGGTG GACAAATCTG GCCCATG

SEQ ID NO:1672: (Length of Sequence = 329 Nucleotides)

ACATCACAAC ATCGTTTATT ATGGAATTT TTACAAATAC AAACAAAAAA TACAGAAATG CAATATATGA ATACAGCTAA  
ATGCAGAATG GTGACTTTTT TCTCTTCAAG AGGCCATGAT TCCCATTTCT AGTAAATAA AGAGACTGCA TATAGGTAGA  
AACAGGTTGG TCATTAGCTT CACAATTTTG CCTAGAAATG ATCTATAAAT GCATTTCCCC CCCTGCTACT TACCCTAAAG  
TGTAATAAGG GAGTTAAAGG AAAGTTTCCT TGTTGGTTCC TACCATATGA AAGATGCTAT ATTCTATTTT AGCAGTGCCA  
ATATATGGG

SEQ ID NO:1673: (Length of Sequence = 386 Nucleotides)

CTCCCTACTG TGATTCTCAT CAAGCTGGAA GCGINGTGAG AAAGCACTTC AGTTTCTTCC CTCGGATATG AACCTGAGCT  
CTCTGATGAG GTGGTTTAGA AGTGGCCCTG GGAGAAGCCC ACTTCTTGGT CACAAGATAC TGCAATCTCC TGGCAGATGA  
ACCAGCTGCT TCCAGCATCC TCTGTGTGGG TCCTCAGGCC TAGCTGCTCT ACGTGTCTGC TGCACAGTGG CATCATGG  
GGAAGTAGAA AAACCTCTGA TGCCGTGCCC CACCCGGCTT AATCAGAGT AGCAAGATT ATCTGGGNTT GGGACCTAC  
CATCATTTTT TTAAAGAAT TGCAGGGGCC AGGGCGTGGC GGGCTTCAGA GCTTCTTAGC AATTTC

SEQ ID NO:1674: (Length of Sequence = 377 Nucleotides)

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CTGAAATTIG GCAAGAAGGG GCAAAAACGT GACTATTAAT GATTGATAAG CACCAGTGAA GAAGTTCTAA CTTTTCAGCAT  
 GCTGCACAGA AACTGGTATA ACATGCCTTC AGTATACTAA CACTCATATG CTCAGTTTIG TTTTGTITIG GCAGTTGACA  
 AGAAGTTAAT TTGCTTTAGT AAAAATCCCT CATTCCAGCC TTTCTATATA AATAGCTCTT TCTTGCTGTT TTAATGTGGT  
 GCACACTATA GCTTCACAAA CCTGTTATTC CAGTGTAAAT TGCAGTGTG TAACTAAAGT TACTGGCTTG GGCTTTATTT  
 GCACAGTTT TGCGNCTTGT TTGCTTCTTG CATCTGGATT AACTAGGAAT ATTTCTC

SEQ ID NO:1675: (Length of Sequence = 381 Nucleotides)

CAGAAGTCAA TCAGCTACGC ACCCAGTTCT CAAAGACCTC ACATGCTAGG GAAGGTGCGG AGGCAGAGTT GTGGTTCAGA  
 AGCAGTTACA GGTCTCAAAG CAAGAACAGC AGCCAAAGCT TCCAGCCCT GACGCTGCCT CTGAATGGTA AACCAATGGC  
 ATATGGTATC CACAGCTAGG CTTTGCTTTT TTCTGAGTGA AGGTAAAGG CATTTGAAAA TAAACCAAAG TTTCACAGAC  
 TATGTTTATG GAACAAACAT GGGCCATTTT CAGGGATATA AAAGTCGATG TTCTATGTAG GCCCCATAT GAGTATTTAT  
 CTACTTTTAA TTACTTTTAT TTTATGGAAT TTATTTGNC AAGGGCTTCA CTCTGTTCGG A

SEQ ID NO:1675: (Length of Sequence = 404 Nucleotides)

CTGTGTGAT TGCTTGAGCC CATCACAGTT TAGCTCTCAC AGCTTTAATT TACTAGCCCA TGAGAAGTCA GCTTCAAAGA  
 ACACCATTTT GACTCTCAAA GAACATTATC AATGTACATG GATAGCTTCC AACTTCATAA GGTGTTTCTC TCTACCTAGA  
 GCAATTAAAC TTAATTTGCA GAATAGTGT TATGAAAAC CTTTGTTGAT CTCCAACAAA GTAATAGTGT ATGTATTCA  
 TTCCTACTAT CTTCAACTGT ATCATTAGA GGAATTTCTT AGGNAAGTCT ATATGCAGTA AGCAAGTAAG ATCGCAGAAC  
 ATCAAAGGNN GGAAGTAAAT CCCAAAACGT GNTTTTACCT TCCTTTCCCT TAGGTGAGGG AAAGGAATTT ATGGTTTAA  
 AGCT

SEQ ID NO:1677: (Length of Sequence = 388 Nucleotides)

ATGGACAACAT ATGAGCCAGG AGTCTACACA GAGAAGGTTT TGGAAGCCAC TAAGCTGCTC TCCAACACAG TCATGCCACG  
 TTTTACTGAG CAAGTAGAAG CAGCCGTGGA AGCCCTCAGC TCGGACCTG CCCAGCCCAT GGATGAGAAT GAGTTTATCG  
 ATGCTTCCCG CCGGTATAT GATGGCATCC GGGACATCAG GAAAGCAGTG CTGATGATAA GGACCCCTGA GGAGTTGAT  
 GACTCTGACT TTGAGACAGA AGATTTTGAT GTCAGAAGCA GGACGAGCT CCAGACAGAA GACGATCAAC TGATAGCTGG  
 CCCAGAGTTG CCCCGGGGGA TCATGGCTCA AGCTTCCCA GGGAGCAAAA AAGCCGGAAG ATTTTCGG

SEQ ID NO:1678: (Length of Sequence = 428 Nucleotides)

TAACTGTGCA AATAATCCAT GAATATATTG TTTTATACA GCATTACAGA TAAGGCTTGC AGCTCTATAG ATCACCCTCA  
 TCCACTCCTT CACTCCATG CTACACTTAA AAGCTCACA TGCTCTCTG TCCTCTCCAA AGGCAGCTGC TAGCATCAGC  
 GCCCACAGTA GCTTCTTTT GTTCTCTGTT TATAAACCAT ACATTTTCTA TGGCTACACA TACGTGTATT GTTTGATGCT  
 TTCTAATAAA ATGTATCAT AGTGGTACAC ATCTTTCACA CTTTCTTAT TACAGTCAAC ATTTGGNGGA ATACAGAATG  
 CAGCAGATCA AGGANCCTTT CTCAGTCTTT TCTAACATGN CCCCAATAC AGCCTCACTA TGGGGTCCAT TTAGNGGCT  
 CATGGTTT CACTCTCACA ACGGTGGC

SEQ ID NO:1679: (Length of Sequence = 256 Nucleotides)

GGTGTCCACA GCTGCTGCC TGGCTGGAG CAAATACCTT TGTTAAGTGC TCAGAGGGTA TGGCCCCICA AATCCACCT  
 GCAGCTCCCT GGCTGCAAT AACTCCTC CACTTTTCA ACTGCTCC TGAACCCCTG GTTACAGT CACTTAA  
 CCTCAGTTGT ACAAAGCATT TTCATTGAA TACAAAAGGC AACTNGNCAC CANATGGGCA TCCTTGAGCC ATGGTAAACA  
 CTGAATTINA GGCTCA

SEQ ID NO:1680: (Length of Sequence = 438 Nucleotides)

TACCACTAGT TCCTTTCCCG CTTTATTTT TAGCTGCTTT TTGGGTTTIA TACAATGAAC ATGTATTAAT TGTAGAAGAA  
AACGATGTCA TCCTTTATGA TAAATCCAT TTCCATTTA GCTTTTTTAA AAAAACAAAA AGCTGTTGTG GACAGATGAA  
CATCAAGTA CTGGGCACAC CTCCAGCCT CCGTCTTCCA CTGAAGGCCA TTGCCTATTC CTAGAAAGTT CTTTCCAGG  
TATGCAGCTT TCAGTTTCCA CTTAGAGGC CACAGTGTCT GGGGGAACGG ACTGCCCCCA ATACTAAAGG GAGTCAAAAT  
CTCTTAATT NCCGCACTTC CTCAGTACCA ACAAGGAAGT CCGTCTTTA GGGCCACTGG ATGGGAACCT NGGGACCCCC  
CTTTTTTGAT TGGCAAGCAT TGGGNTCCT AGGGCCTT

SEQ ID NO:1681: (Length of Sequence = 370 Nucleotides)

GTCTGGGAAG GGTACAATGT CGTCCGCGCC TCGAGGGCCA TGATTGGACA CACCGACTCG GCTGAGGCTG CCCCAGGAAC  
CATAAGGGGT GACTTCAGCG TCCACATCAG CAGGAATGTC ATCCACGCCA GCGACTCCGT GGAGGGGGCC CAGCGGGAGA  
TCCAGCTGTG GTTCCAGAGC AGTGAGCTGG TGAGCTGGGC AGACGGGGGC CAGCACAGCA GCATCCACCC AGCTGAGGC  
TCAAGCTGCC CTTACCACCC CATCCCCAC GCAGGACCAA CTACCTCGT NAGCAAGAAC CCAAGCCAC ATTNCAAAAC  
TTGCTGTINC CAAACCACTT ACTTCCCTGT TNACTTTTG CCCCANCCCA

SEQ ID NO:1682: (Length of Sequence = 397 Nucleotides)

ATGTAATCCG CTGCACCAA CACACCTTCA CCAACCACAT GGTTTTTAAG TTGACTGCA CAAACACACT CAATGACCAG  
ACCTTGGAGA ATGTINACAGT GCAGATGGAG CCGACTGAGG CCTATNAGGT GCTCTGTAC GTCCCTGCC GGAGCCTGCC  
CTACAACCAG CCCGGGACCT GCTACACACT GGTTGGCACTG CCAAAGAAG ACCCCACAGC TGTGGCCTGC ACATTCAGCT  
GCATGATGAA GTTCACTGTC AAGGACTGTG ATCCACCCAC TGGGGAGACT GATGACGGAG GCTATGAGGA TGAGTATGTN  
CTGGGAAGAT CTTGGAAGTT TACTTGTAGC TTGTTACAT TCCAAAGGT TCATGGAAC TGAACCTCGA GCAGCCT

SEQ ID NO:1683: (Length of Sequence = 396 Nucleotides)

GGCTGCGCAG AGGAGCCGCT CTCGCGCGC CCACCTGGC TGGGAGCCCA CGAGGCTGCC GCATCCTGCC CTCGGAACAA  
TGGGACTCGG CGCGCGAGGT GCTTGGGCG CGCTGCTCT GGGGACGCTG CAGGTGCTAG CGCTGCTGG GGCGCCCAT  
GAAAGCGCAN CATGGCGCA TCTGCAACA TAGAGAATTC TGGGCTTCCA CCAACTCCA GTGCTAATC AACAGAGACT  
CTCCAACATG TGCCTTCTGA CCATACAAAT GAAACTTCCA ACAGTACTNT NAAACCACCA ACTTCANGTT GCCTCAGACT  
CCAAGTNATA CAAACGTCA CCACCATGN AAACCTTACA AGCGGGCATT TTAATTNCAA ACANCAACCA GGGGAT

SEQ ID NO:1684: (Length of Sequence = 417 Nucleotides)

ATCCAGGGGA GATGCATGTG GAAATGTGGT CCTCTGGGT CAGACCCCTG CACGGGACAT CTTGCCTTTN AGTGTGCAGA  
GTACATGGGG AAGGGGCTGG GGGCACCCT GTGTACCTGG GCCAGTAAG GCATTTGCCG TGATTTCCAC AACGGGGTCA  
AAAGCTGGCC TTCAGGGTGA CCTAACACCA CTTATGCC TGTATAGAC CTTACAAAC GACTTCCACT GCTGAAGCCT  
GTAGGCTCTG TTTAGAGACA AGAAGATGGC TGTTAATTGA AGCACCAGAT TCCAAGTGC CCACTCTCCT TTGTGCTCTG  
TTGGCTTTTG GCCTAAAGCT TNNCCAGAG TTAGGGTGA GGATGTCTGT GGTCTGTGAG ATGCCTTTCC CTTCCCCCT  
CTGCTCAAC CGTGGTT

SEQ ID NO:1685: (Length of Sequence = 429 Nucleotides)

GAGCATGGA GAACTCTGAA AGGAAGAATC GCGACTTTC TCAAGCAAAT CGGTTCTTG ATGCTTTTG GTTCTCCTTG  
CCTGNCCTG ATGCTTGGNC CCGTTTAATT GATCAGAGTG CTCTAGAATA ATGGATGGT TGGATCATG GATTAATAGG  
GACAGGGACA GTTAAATGG GAGCCTTTCT TACAACCTTN ATGGGATTT CCCCCCAAG TTCTCTCTC CACTGAAATG  
CCACACTAAT GCTTGTGGG ATTCATGAGG TGGCCAGACC AATGTGTGT TTGTGTGTG TTTTTTTTT AAGCTTCCCT

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TGAGAGAATA AATGGGTAAT GGGAGGAGAA CTATTTTAAC AAGGGTCCTG GGTTCCTCTT TGCAACACA GTAGGCTTAA  
ACTTTGCCTG CTTTTTAAAA TGGCATTTT

SEQ ID NO:1686: (Length of Sequence = 445 Nucleotides)

TGTCCTCATA ATATAACAAC ACTAATACAC TAATAGTAAG ATTAAGTTAG GCAGTCTTCT ACCAAATGTG TAATGGAGAT  
TGCCTCAAAA TTGTGTCCAC ATAATCCACG CTCATCTTGC AAAGCGCTAT TTCAGGCACT TTTTTTTGAG AAAGAGTCTC  
ATTCTGTGCG CCAGGCTGGA GTGCAGTGGC GCAATCTTGG CTCACAGTAA CCTCTGCTC COGGGTTCAA GCGATTCCCC  
CGCCTCAGCC TCCCGACTAG CTGGGACCAC AGGCACGNAC CACCAAGNCC GGCTCACCTT TGTATTTTTA AGTAGAGATG  
GGGGCCTCAC CATATTGGGT CAGGCTGGGT CTTCAATCTN CCTGGACCTC ATGNTCCACC CGCCTTGGGC CTNCCAAAAG  
TGCTTGGGGA TTANAGGGA TNGGGCCACC GGGGCTTGGG CCAAT

SEQ ID NO:1687: (Length of Sequence = 170 Nucleotides)

AAAAACCAA TAAAGCAATA ACTTTAAGA CCTCAGACAC ACACAGTATA AACACCTGGG TAAGGTTTTN TCGTGTCCA  
TGTTGACACC GGAACCTACG TTAAAGTCA AGTTTGTIT TGTTTCCTT TGTGCACTT CACTCACATG TAAACAAGTC  
ACTTGGCTAT

SEQ ID NO:1688: (Length of Sequence = 386 Nucleotides)

AATGTGATTT GATGTTAACA CTAGAGAATG ATGACTGTAG AACATTTGAG CAAGTAAAT AGTAAAGCAC ATAGTGAGTG  
TATGTCCATC TAACTGGTAC ATTGATAATT TAGTTTGGGC ACATAAAAGG AATATTTATA TGGCTTCCCA AATGCAGAGT  
TACATCTTAT TCGTGTATTT CTCGAGTAT TTATATCCCG TCCTCTTTT TCATCTTAA AAATAAATGA ATTTTCACTG  
TTGGCACATA TGAGGCTTAA ATATAAGGAG CATAACACTT GCATTCTAAT TTTTGCATAT ATTGTAAATG TGTCTGGTAT  
TTACAGCAA ATACTGTGTA TCCTTTATGG GTAAACAAAG TGACATTGCA TGCACTAAT GTGATG

SEQ ID NO:1689: (Length of Sequence = 400 Nucleotides)

CTTCTGTGCG ATCAGCGTAT TCTAGATTA GGAATTCAAA TTAATGAAA TTCACATATG AAAGGAAAAT CCATTGCTAT  
TTCTGGAGAG GACCTCAGTC CTGGGCTTTT CCGTGGCACT GCTACCTGGG TGGGTGCTCA CCCTCAGGT GCTGGTGTG  
GAAGGCAGGA GGAGGAACCT GAAATCCTGC CGATTAGGC TAATTAACAG GGTTAGGTG CCTAATTATC ATGACTCAGC  
COGGGACTTA TGGTTAGCCG TGCAGGCCAG GTGAGTCTCT TATGGACTTC CTCACAGCT GCTCTTCTC ATTTTGTCTT  
GATGAGATAT TGACAGTCAT GTCCACCCGC TTCTCATCC ATTTCCCGTC TTTGGGCCCT GGAAGTACG GGGGCTCTG

SEQ ID NO:1690: (Length of Sequence = 337 Nucleotides)

AGINATATAC CTTTAAAGT AACTAATGCA ACTGCCAAN AGGGACAGTG TCAATATCAT TGINTTCATT AGAAGGACGG  
CTGCCCCACA CTGYNAGAAC ACTGCTGTTC CTAACAGTAG TTTACTTTNA GAGGGATGYN AGAATTAGTT TNACCTAAT  
TCCAGATGTG CATGCCCAA AAGAAAAATC CCATCTCTCT TCCTTTTGGG GAGCACTTTT GGTGGCACCA AGGCTGGTGT  
GGGGTAGTGG AGAGAGCACT GAGCTTAGAG TCACAACCAG ATGAACTGC TCTGGTCTC ACTAGCTGTG TGACTTGGGC  
AAGCAGCTTG CAGTCTC

SEQ ID NO:1691: (Length of Sequence = 372 Nucleotides)

TCATTCCTCC AAAGTGCTGG GATTATAGGC GTGAGCAGT GCGCCAGCC TTAATTATTT TTAAATCAGA TTTTAAATC  
AACTPAAACA GCTATGCTT AAGTACCTGC CCTGCAAAA TTTTAAAGG AAGTTTGGG ATTATGAAAT TTAATAT  
TTCTCTAAC TGAACAGTT CTAATTTTA TCTGACTCT CTCTAACAAG TGAGTGATCT CATGTAACC CAGTTGTAT

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CTTAAAGGCT GCAGCATAGA ATTGAGCTGT ATAACAGTGT TAGAACTGTC AAGTGATAAT CACAGAACAG TTGTATCGG  
TTTTATAATT CTCATGTCCT GATCAGATCT GAAGGGAATA GGCATACCCT CC

SEQ ID NO:1692: (Length of Sequence = 360 Nucleotides)

TTTTTTTGGC AAAAATAGTA TATATTTATT ATGTACAACA TGTATTTTGA GATATGTATA CATTGTGGAA TGTCTAAATT  
GAGCTAACAA ATACATTATC TCACATACCA TGTTTTTTTG TGGTGACAAC ATTCAACAAT ATAGACCATT TCACAAATTT  
GCATGTTATC TTGTGCAGG GGCTATGCCA ATCTTCTCTG TATTTTINCA ATCTTGGTGT ATGTGCTGCT GAAGCACACA  
CCCTAATTC TTTCATTTAA GGNCTAGTT AACCTTCTC TTAAGTATAA CCATGTATTT TGTTAAGCAA TATCTTTTTA  
TTACAAAAT GCCATTTTTT TCTGGNTAGG AAAATTGATT

SEQ ID NO:1693: (Length of Sequence = 378 Nucleotides)

GACAAAAAGA GGGGTCTGGC TGCCGATGTG GAAATTTGTT TTGTGGACTT CACCGTTACT CTGACAAGCA CAACTGTCCG  
TATGATTACA AAGCAGAAGC TGCAACAAA ATCAGAAAAG AGAATCCAGT TGTGTGGCT GAAAAATTC AGAGAATATA  
AATTACTTCT TGGAAGAGA CTGAACTTT GTTTTTATTT TAATATATCG TAGGAAAACA TTAAGAGCA GATGCATGGC  
CATTTTNCCT TGATGTTCTC CAGAGTTTAA CATTACACTT GTCTGTCTTA TAATTGATAT TTTAGGGATG TTTGGGTGTT  
TGTTACAGGC AGAATTGGAT AGATACAGCC CTACAAATGT ATATGCCCTC CCCTGAAA

SEQ ID NO:1694: (Length of Sequence = 362 Nucleotides)

AATGCACTTT ATGGGCTCCC AGGGAGTGGG ATGCAGGATC AGAGTGGACA CGCGCAGGGG GCTGGTGTGG GGAGCAAAGC  
NCCGGGCTG CCCCAGACCC TGGTTTCCCT GAGGACCAAC GTGAATGGGG GCCCCACTGG AAAGATGCTT GGGGCTGCAG  
AGCGGATGGA ATGCAGGCC AGGTGTCTGG GTGGTGCCCT CAGCTCCTGG CAGGGTTGAC GGGTGGTGGC CGCTGGGCTC  
TGCCAGCCGA TGGTCNCCTG GCACCTGATC CTGTCTTCCA GCTTCACCTC CGGGCCTGCT CGTAGTTGTC AGTGAACCAA  
GCACAGGTCT CCTTGACCGN CTGCTTTNAA GGGTGTGAAN CG

SEQ ID NO:1695: (Length of Sequence = 411 Nucleotides)

TTAATACAAG GGGTTTGAAC TGGACATCCT AATGATGCAA TTACGTATC ACCCAGCTGA TTCCGGGTGG TTGGCAAAC  
CATGRTGCT GTCTGAGAG GCTCCACAAT GCCACCCGC ATCGCCATTC TGTAATCTTC AGGGTCAGCT GTTGATAAAG  
GGGCAGGCTT GGGTTATGG CCTAGATTTT GCTGCAGATT AAATCCTTTG AGGATTCTCT TCTCTTTTAC CATTITNCTG  
CGTGTCTCA CTCTCTCTT CTCTCTCTAG CTTTTTAATT CATGAATATT TTCGTGCTG TCTCTCTCTC TCTCTGTGTT  
TCCTCCAGCC CTGTCTCGG AGACGGTGT TTCTCCCTT GCCCATTATC TTTCAACTC CCAGGGCTAC CCATTCAAT  
GGTGGTCTG T

SEQ ID NO:1696: (Length of Sequence = 280 Nucleotides)

CTTTGTGATG TTTTACGCT TTACAAAAG CAGATTGTT ATTACAGAAA GCCTGCAAAT ACAACATTGC TTAAGAGAAC  
CTGTAAACAC GTTTGGAATA CAATGCAACA CAAGTCAGCA AGGACAGGGG TAGGTCCAAA GGAGCCAGCT AGGGGGAAAG  
GTGACAGAAA AGGAGAGGGA AGGATGGGA CAGACATCAC CTGTGGTCTC TAAGGGGGCC NTGTGTTAA TTTATAAGGT  
TTTCTNCCCA CAGGAGTCT NNTGTGATCT ATCCGTTTAT

SEQ ID NO:1697: (Length of Sequence = 418 Nucleotides)

ATTTCTTCAT TTACAAGAGG AATATATTG GCTTCTCTT TAAGACTCTE AGATTACAA TCAGCAGCTC TAAAAAATAA  
AGGAGCAGTT TGGCTTCCGG AAGGAAGAGG AGGCAACACT CGGACCTGGT TCTGTACAA CAAGAAAACA TCGCTGGGGC  
CCCCTGAGG CTGGAGTGGG GGTGGAGGCT GGTCTTTGGA GGATGCCACC CCCACCCCAT CCTCTGTCA GGCCTCGGG



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GTACCCAGAG GCTTNGTGGG TGAGTATTCC ACCTGCTTAC ACACCACTGA AGCCACAGCC AGCCAGTAAAC TAAGGGGCAA  
GAAAGAGCAT TGCCAAGCT GGCTCTTNG GGGGGTCCCC CATINGGCCA CAAAGGCTC ACCCCCCACC CCATCCCCGT  
AACCAGAAAC CACCTTGA

SEQ ID NO:1698: (Length of Sequence = 376 Nucleotides)

ATTTTTATTG TTTATTACT TATTTTTTAC CCTTTTTTCA AGAGATGGGG TCTCAGAGTG TTGCCAGGC TGGACTTGAA  
CTCCCACTCC TGGGCTCCAG CAGTCTCTCT GCCTCACCTT TCCAAGTAGC TGGGGCTATA AGTACACACC ACCATGCCCA  
GCAATATTTT AATTTCTGTA ATGTGTCAAT TAGCCAGTGA TTGTGTGTAAT ATAATAGAAT CACAGAAATG GAGGGACTCC  
TAGAGGTAAT CAAATCTGGT GGTTTTTAAG CCTTTTATTC CCTCTAAAGG GATAGTAAAA CCATTAAAAA TATAATTTTT  
CCCAATTATG TAAGCCAGRG AAGCTGACC TYCTGGTTTA GAGAGGAACA CAGATG

SEQ ID NO:1699: (Length of Sequence = 365 Nucleotides)

GGTACATGTG CACAACGNG GNGTTTGTA CATATGTATA CATATGCCAT GTTAGTGTGC TGCACCCATT AACTCGTCAT  
TTAGCATTAG GTATATCTCC TAATGCTATC CCTCTCTCT CCCCCAAGC CACAACAGTC CCTGGTGTGT GATGTTCCCC  
TTCTGTGTG CATGTGTCT CATTATTCAA TTCCACCTA CGAGTGAGAA CATGCTGTGT TTGGTTTTTT GTCCCTGCGA  
TAGCCAGATG CAGCTACTCT TAATGTGCAT ATTTCATCC TAGAACATTG GAGAGTCTCT GTAAAAGCCT TGTGTCCAG  
GAGGAAGGAG ATCTTGACCC TTGTGCTGAT GGCAGCAGTC AGGGG

SEQ ID NO:1700: (Length of Sequence = 397 Nucleotides)

AAAGGCAGTC AAGCAGGAGT TAAACAATAT GGACCTAAT CTCTTATAT GAGAACATTA TTAAATTCCA TTGCTCATGG  
AAATAGACTT ATTTCTTATG ATTGGGAAAT TCTGGCTAAA TCTTCCCTTT CACCTCTCA GTATCTCCAG TTAAACCT  
GGTGGATTGA TGGGGTACAA GAACAGGTAC GAAAAATCA GGCTACTAAT CCTGTGTCTT ATATAGATGA AGACCAATTG  
CTAGGAAGAG GTCCAAACTG GGACACTATT AACCAACAAT CAGTAATGAA AATGAGGCTA TTGA/CAACT ATAAG/CTTA  
TTTGCTCAG GGGCTGGGA AAACATTCAG GACCCAGGA ACCTCATGCC CTCTTTTAG GTTCAATCAG ACAAGT

SEQ ID NO:1701: (Length of Sequence = 245 Nucleotides)

GTCTAGGAGG AGGCCTCTG CACAGAGCCC CTGAAGAACA CAGGCAGAGG CCCCCACTT GGCTCTTACC ACGTCCAGAA  
CATGCGAGTG GAGGTGACCA AGTCTTCAT TGAGTACATC AAGAGCCAGC CATTGTTTT CNAGGTCTTT GGCCACTACC  
AGCAGACCC GTTCCGNCCT CTCTGCAAGG ACGTGTCTAG CCCCCINAG CCCTGGCGCC GTCACTTCCC TGGGTTCATG  
CCACT

SEQ ID NO:1702: (Length of Sequence = 349 Nucleotides)

ATCTGTGTG AGCACAGTTT TATTTGCTGT GGAATCCATG AGAGCCGGAA GCATGTTGG GGCGTGGCT AGCAGAGCTC  
ATGGTGACCA GTCTGGGCC TGACCAATGG GTGATTACAT TTAAAAACCA AAACAAAACA AAACAAAATA CCAAGAACAG  
ATCACTTGGC ATGGACATCA GTAATCTATT GGTAAATGGTG AAAATTTTCAAT GAAAATTTCC CCTAAACCAT AACAAAACT  
GTCTCTCTTA CCCCCAAAGT GCTGGAGGGA AAGATGGTGT CATGGCTTTG ACCTCTCTTT GAAGTTGAAA TGCTACCTTC  
CTACCCGGAA AATGCGGCAC ACTATACTT

SEQ ID NO:1703: (Length of Sequence = 419 Nucleotides)

GAGCCCTGC CCTCCAGAAG CTEACATCTT CCTACTCATG GCGACAAAT TACCTCTCTT TACCTCTCTT TACCTCTCTT  
GTGGCAGCAG ATGTAGTATG CAGTGCAGAG GTGGCCATGG TTGCTAGGCG AAGGAGGGCT TCCTAGCATG GGCGTATTT  
GACCAGAGGC TGGCGGTGGC TTTTGCTAGC AGTGTGATTG TATCTGAGC CAGGACAGA TACCTCTNTG AGCCTTGGTT

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TCCTCATCTG TAAAGTGGTT AAAGACTGAN TAAAGCAAAA TATGTGCAAA CAGTCTGTGA ATGGGGAAGT AACAGATGTT  
GCTTTCTATT ATGTTCTCTC CTAGCCATGA ATATCAATTA TTTCAGAAAT GAAAAGGGAT CCTGCACCCA ATTTCAAATC  
AAGCAAGTTC ACCTAGAGG

SEQ ID NO:1704: (Length of Sequence = 372 Nucleotides)

GCTTCCCAGAA GGTCTTGGAC GAGCGCTCTA GCTCTGTGGG AAGGTTTGG GCTCTCTGGC TCGGATTTTG CAATTTCTCC  
CTGGGACTG CCGTGGAGCC GCATCCACTG TGGATTATAA TTGCAACATG ACGCTGGAAG AGCTCGTGGC GTGCGACAAC  
GCGGCGCAGA AGATGCAGAC GGTGACCGCC GCGGTGGAGG AGCTTTTGGT GCGCGCTCAG CGCCAGGNTC GCCTCAGT  
GGGGGTGTAC GAGTCGGCCA AGTTGATGAA TGTGGACCCA GACAGCGTGG TCCTCTGCCT CTGCGCCATT AACGAGGAGG  
AGGAGGATGA CATCGCCCTG CAAATGCACT TCAACGTTC TCCAGTCTC TC

SEQ ID NO:1705: (Length of Sequence = 426 Nucleotides)

GATGCCITAT TTAGTCCATT TGGTGAGGTA ATGTTTCTT GGATGTCCTT GATGCTTGTA GACATTGTGTT GATACCTGGG  
CATTAAAGNG TTAGGTATTT ATTCAGTCT TCACAGTATA GGCTTGTTTT TAGCCATCCT TTTTGAGAGG ACTTTCCAAG  
AATTCAAAG GGATTGAGTG TTGTGACCTA AGCCTATGTT CACTGCAGCC ATTTTCAGCAC TAGAGAGTGC CCTAAGCCCC  
GGAATGCTGC AACTCTTACA GACTCCTTGA TACACAGCTT TGGTAGATTT TGGGAAAATA AGGGAGAATT CCTTGGGGTT  
ACCAGGTAAA AAGTCTCTCC CACTTCCCTC TCTTCTGGC AAAGGAAGTC AGTCTCTGCA CCAGGCTGCC TGGAGTTGG  
GGGAGGGATA AGGCGGTAC TCTAAT

SEQ ID NO:1706: (Length of Sequence = 412 Nucleotides)

ATTTTATTTT CTTACATCGA AGAAATGTT AAAGAGTATC TNCAGACACA TTGGGAAGAA GAGGAGTCCC AGCAGGATGT  
CAGTCTTTTG AGGAAACAGG CTGAAGAGGA CGCCACCTG GATGGGGCTG TTCCTATCCC TGCAGCATCT GGAATGGAG  
TGGATGATCT GCAACAGATG ATCCAGGCCG TGGTAGATAA TGTGTGCTGG CAGATGTCCC TGGTGGAAA GACCACTGCA  
CTCAAACAGC TGCAGGGCCA CATGTGGAGG GCGGCATTCA CAGCTGGGCG CATGAAAGCA GAGTTCTTTG CAGATGTAGT  
TCCAGCAGTC AGGAAGTGA GAGAGGCCCG AATNAAGGTG TACATCTATT CCTCAGGGAG TGTGAGGCA CAGAACTGT  
TATTCGGGCA TT

SEQ ID NO:1707: (Length of Sequence = 434 Nucleotides)

GTGTGTCTGC AAAAAAAGAA AAGATTCTAG GCATGGTGGT GTGTGACTG TAGTTCAGC TACTCCAGAG GCTGAGGTGG  
GAGGATTGGT TGAGCCTGGG TGGATGAGGC TGCAGTGACC CATGATCATG CATGGGAGAC AGAGCAAGAC CTGTCTCAA  
GAAAGGAAAG AATCACTGG CTCTTCTGTA AAAAATGATC TGTTAAGAGT AATTGAAAA ATAAATACAA GTAATAAAT  
AATCTTTTCA TTAAGAAATA CTACCAAAT TAACATGGAG ATCTAGCAA AAGTCAAAG CAGCTNGGCG TGGTGGCTCA  
CACCTGTAAT CCTACACCT TGGGAGGCT GAGGCGGAG GNTCGCCTGA GGTCAAGAGT TCGAGACCAG CCTGGCCAAC  
AGAGCCAAGT CTCTACTTAA ATACAGATTA GCTT

SEQ ID NO:1708: (Length of Sequence = 440 Nucleotides)

GGACCAGGAC TCCAGCACCT TCCCTGGCTG CATCAACAAT GCCACACTCT TTCAAGATGA GATAAACTGG CGCCTCAAGG  
AGGGACTGGT GGAAGGCGAG GATTATGTG TGCTCCAGC AGGTGCTTGG CATTACCTGG TCAGCTGGTA TGGTCTAGAG  
CATGGCCAGC CACCCATTGA ACGCAAGGTC ATAGAGCTGC CCAACATTA GAAGGTGGA GTGTACCCAG TAGAACTGCT  
GCTGTCCCG CACAATGATT TGGGCAAATC TCACACTGTT CAGTTCAAGC ATACCGATT TATTCGCTA ATATTGCGCA  
CAGCTCGGGA GCGGTTTCTG GTGGAGCCCC AGGAGACAC TCGGCTTGG GCCAAGAACT CAGAAGGCTC TTGGATAGG  
TTGATATGAC ACACACATCA CGGTTCTGTA TGCGGCCCTT

SEQ ID NO:1709: (Length of Sequence = 404 Nucleotides)

TTTGICTTAT GTAGAATTGC CTATAGTAAG AAAACCCAGT AGAGAAAGTG GTTTINAGAC CATTGGGCAG CTGCTTTGGA  
CACCTGGAGC CATTTCTTTT ACAGATGAAG ATGCATTGIG TCATTGTCTC AGGATCCTCG TCCTGTTGCT TCTCTGGCCA  
CAAATTGTTT TTTACCAAAG ATGATTTTAT TTCCTGTCTT TTGAAAATCA TTCCTTTATG GTAGAATATG AAGATTCTCT  
GAAATGATTG CAAAATGCCA AACTCAAACA CTATTGTCCG ATTCTTTTAC TTGCAACAG AGAGTAGAAG GGACAGTATT  
TGTTTTGTGA TGTGTTGGGGG TTCATCAGGG AGAGAAATTG AGATAAGTAG GAATAGCAAA TAGGAATAGT GAAATAACCT  
AGAT

SEQ ID NO:1710: (Length of Sequence = 187 Nucleotides)

GGTGATCTGC CGACCAAGAG CCTTAACTC TGGTGTGAG TACTACTGGG ACCAGCTGAA CGAGACGGTC TTCCTGTCC  
ATTCCAACAG CAGGAGCAGC GAGCGSCTGG ACCAGGCAGA GCACATGGAG GACAGCAGAG ACATGGGCTG ATGAATGCAT  
TGGGCTTCAG CCGACCTGCA CTCAGTG

SEQ ID NO:1711: (Length of Sequence = 313 Nucleotides)

AGGGGCATGT NATCATTINA ATGATGINAT CTTTGGTGT TCCCTCAITA GCTGTAGACT ATCCCTCTC CTCCCACCAC  
AATGTTCTA TGATGAGTGA CAAACAGAAA GGAAATCACA TTTTCATACT AAAAACAAAA TGATCAGAGC CTTGATTTCT  
CCACTAGAAA CTACACGTAC AGTTAAGAGT CCACATGCAA CACCTTAAAT CACAGACTGA GGACCTCACA TTCTGACCTG  
GGAGTCTCCT CCCCCTCCCC AGCCTTGGGC TAGCTTTGGC CTAGGCTCAG GTAATACTGA CCCCCACAG CGT

SEQ ID NO:1712: (Length of Sequence = 202 Nucleotides)

TTTGGTGGT TTCTCTTTA TTGTGTGCT CCTACCTTC CCCACAATT CAGTCCCTC CAACACCCCA AAAAGAAGGA  
GTGAAAGGAA GGGATTGCTG GGGTTCTGAG CCTTGGCAG TCAGAAGGAC AGAACCAAC ATCACTGGAT GTGACACAG  
TGCAACAAGA AGTCTACAGC AGTATGGGA GGGCAGAGA AG

SEQ ID NO:1713: (Length of Sequence = 253 Nucleotides)

TGATTCANTG GGTCTGGGAT AGAGTCTGGT ATTCTGCATT TCTGACTAGC CTCCAGGTGA TACTGATTCT CCTCATCTAG  
GGACCTCGCT TTGAGTAGCA AGTGTTTAGG CCACTTACTA GCAGGAATA AGCACAGTAT CCTACAACAG CAAATGTCTT  
TCCAACAAGA AAGACGAGAG CAAATNCTGA TGCCACATCT GCACTGCCCT AGAAAATAAA GAAGGGATGA GGAGCCCCC  
AGTGGCACTC TGT

SEQ ID NO:1714: (Length of Sequence = 299 Nucleotides)

GGTGACGCTG CTTTGAAAAA TGACTTGGCA GCACCTCAA ATGTTAAACA GAGTTACCAC ATGACCCAGT AATTTACAC  
TTAAGGATAT ACTCAAGAGA AATGAAACT AAAACATAC GGCTACCCAA AACTTACAT AAGANTGTT ACAGCAACAT  
TATTCATAAT AACCAAAATA TGGNAACAAC CACAATGTCC ATCAATTGAT AAMTGGGTAA AGTCTGGCAA ACTCACAGRA  
TGGRATATTA TTTGGTGGTA AAAAGGAGTA AAGAACTSN ATGTACTACA ACATGGGTG

SEQ ID NO:1715: (Length of Sequence = 371 Nucleotides)

TTTTTTTAC CGGGCGTTC CTGAGTTTAT TTGGGGCACA CCGGACGAG GGCCCTGCAC CTAGAAGAAG GTGTTGGGCC  
CTTGGTGGT GAACCGTGC TTGTGCTGAC GCTTGGGAC CCGGTGGGC AGCGGGAAT TCTCTTGA GTCTGGAAC  
TGCTTGACAG CCGGCGGCG GCACTTGTG GCGCGATCT CCTCCACCT CATGATCTGA ATGGAGTGG CTGGGCGCG

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GTGCCGGGCA CCCATGTCTC GGTAGCACTG GGTGACAGCG CCTGCGGTGG TCAAGTCCCG GTATTCCCGG TACATGTTGT  
GGGTGCCGCT CCGGGAGTCA TAGCGCAGCA AGATCCCGAA GTTCTTCAAC C

SEQ ID NO:1716: (Length of Sequence = 265 Nucleotides)

GTGCAGAATC TGCTCCTGGA CACCCACAGG GGGCTGCTGT ATGCGGCCTC ANANTCGGGC GTAGTCCAGG NGCCCATGGC  
CAACTGCAGC CTGTACAGGA GCTGTGGGGA CTGCCTCTC GCCCGGAACC CCTACTGTGC TTKGAGCGGC TCCAGCTGCA  
AGCACGTGAG CCTCTACCAG CCTCAGCTTG CCACCAGGGC GTGGATCCAG GACATTGAGG GAGCCAGCGN CAAGGACCTT  
TNCAGCGCGT CTTGGTTGT TTCCC

SEQ ID NO:1717: (Length of Sequence = 350 Nucleotides)

CAGCCCCGC AGCCCTCTGG CCCCCTCCAT CTCTTGTCGG TTCCCACCA CCCCCCTCT CCGCCCGAGC CTTTCCCGG  
TGGGTGTCAG GNTCACTCCC ACTAGGGACT CTGCGCTAAT TACCTGAGCG ACCAGGACTA CATTTCCCAA GAGGCTCTGC  
TCCAGGAGTC CAGGAAAGAC GAGGCACCTT GGCCGCGGGG CCTGCTGGGA CTGTAGTTG CCTAGACAGG GCACCACCT  
GCACTTCCGG ACCCGCGCTG GAGGCGCGT GAGGTTTGGT GTCTCGAAGC AGCAATTAAA AAGCAAGAGG ACTTCATGAC  
CACCATGGAC GSCAATTAGG AGAAGATCAA

SEQ ID NO:1718: (Length of Sequence = 379 Nucleotides)

GACATGGAGA CTCACATGGC TGCAGAACAC TGTCAGGTGA CTGCAAAATG TAACAAGAAG TTGGAGAAGA GGCTGTAA  
GAAGCATGAG GAGACTGAGT GCCCTTTGCG GCTTGCTGTC TGCCAGCACT GTGATTTAGA ACTTCCATT CTCAAACTGA  
AGGAACATGA AGATTATTGT GGTGCCCGGA CGGAACATG TGGCAACTGT GGTGCAATG TCCTTGTAAG AGATCTGAAG  
ACTCACCTG AAGTTTGTGG GAGAGAGGGG GAGGAAAAGA GAAATGAGT TGCCATACCT CCTAATGCAT ATGGATGAAT  
CTTNGGTCA GGATGGAATC TGGATTGCAT CCAACTCT CAGACAAAT GAGGGCTCT

SEQ ID NO:1719: (Length of Sequence = 197 Nucleotides)

CCTATATTG TTAATTAT TTAAGACCAC CTCCTTACAA CTTCAGAGA GAAATACAA AACAAGAAC AGACTTGGT  
TCAATGCAT AACCAGTGC TGGAGTTAA AGCATTACTG ATAACATTGT TACAGAAGAA TGCAGCTTA CTCCAGGGCA  
CTTCAGTATT CTGAGGAAT AACATGATT TCGAAG

SEQ ID NO:1720: (Length of Sequence = 203 Nucleotides)

GAGGGCGGG CAGAGGGAGC ATGACGGGA GAGTGAGGAG GAAAGAGGAA AGGAAGGCCA GGGTGGGAGG AAGGATCANC  
TAAATCTGAG GGAAGAAGAA GGAAAGGAGA GGCCTATT CATAGCAGAT GCAAATRAAG GNCITGGGG CTATCAGGA  
AGAAAGGGAA AGGAAGGAA GGCAAGAGAG AGGGGTGAAG GGA

SEQ ID NO:1721: (Length of Sequence = 326 Nucleotides)

GGTGACGGA TGTTTAATGG CAATTCGTAT AAACCAAGCC CATGCACAAG TAGAAAGTGC CCGTGGAGCC GGCAGGAGGC  
CCCCCGCG NTAGAGAACC ACAAGCCCG CCGTGCAGCC CTCCCCGCG CGCCTTAAAT AGATTCTTCA CTATACTCTG  
TATGTTACAG TATGTACAAG ACCCTCCCC TCGGGGAGG GGGGGACTN CGCAACNGT TCCTATGTAC ACCCCTCCC  
CTTTCGCCCC TGAGGTGAGT GGCCAGAGTC GGGTGATGGG GTAAGANAGG GCCAGAGAGG GAGGAAACAG ACGCAAACAT  
GCGGAG

SEQ ID NO:1722: (Length of Sequence = 291 Nucleotides)

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TGTTTTTAAA AATGAGAAAA TTGGAGAGA GAATACTATT ATGTCAACGG TACAAGACTC TGAATCTTGA AGATGTAGAT  
GGATATAATA TTTAGACTTT ATATACACCC ATAGATATGT ATTTATATAT GCATACGTTT TGTATAAATT TACAATTGAC  
TTTTTGTATT CTCTTNCCTG TCATTACAAG AATGAGATGG AAACCAAAAT AGTTGTCNCCA TCCTCTTACC CAAAGAGGGA  
TACTGAAAAG TCOGGTATGT GCATGCACCT GTTCTCTGCG GGTCAAATCT G

SEQ ID NO:1723: (Length of Sequence = 369 Nucleotides)

GATTGCCCGC TCCCTOGATT CCTTCCTGTT GTCTCCAGAA GCTGCTGTGG GCTTGCTAAA AGGGACAGCA CTGTGCTTAG  
CCCGATTACC TTTGGATAAG ATTACOGAAT GTCTTAGTGA ACTATGTTCT GTTCAGGTTA TGGCATTGAA AAAGCTGTTG  
TCTCAAGAGC CCAGCAATGG CATATCCTCA GATCCACAG TGTTCTTAGA TCGCCTTGCA GTGATATTTA GGCATACCAA  
TCCCATGTG GAAAATGGAC AGACTCATCC GTGTCAGAAA GTCATACAGG AAATATNGCC AGTTTTTATC CGAGGACTCT  
AAAATAAGCA CCGAGCTGNA TAATCGGATT GTAGAGCGTT GTTTCAGG

SEQ ID NO:1724: (Length of Sequence = 231 Nucleotides)

ATGTATTGTT AGTTGATTC CTCAAATTT TATACATATT TACTTTCTGT TAAAGAGAAA AGGATAAAAT GGTATAAAAA  
AAGATAAAGC TATTAATTAA GCAOGAGAGA GAAGATAAAT GGATATTTTC CCTGTGTGAG GCTAAGACAG AWGCAATCT  
CGTTANGAAA AATGCCACCC ACACAACAGG AANITTTATCC AAAACAAAAC AAAAGCAGTT ATAGANCCCC T

SEQ ID NO:1725: (Length of Sequence = 317 Nucleotides)

GTGCAGGGTA GGGTACATAT GGCTCTGTCA GAAGAATACC ATGATTTAAG GGAAGAAAGT ACACAAGGTA CATGGAGGGT  
ACACAGGGAA AGTACAT A TAAACATGGA CGTGTGCAAA TAGGAAAGAC ATGACTCAGC ATGCTAGACA AATTGCACAT  
GCCTACCCAA ACACGCT A GGGCAGACCC ATGACCATGA GAGGGGCACA CGTAGCTGTG AATGCAGGGC ACCCGAGAGC  
ACATGTACT KAACATGAAG AAAGCATACG GGAAAAGCGT GTKACACAT GNGCATGTT AGTGGGGCAC ACGCAGG

SEQ ID NO:1726: (Length of Sequence = 282 Nucleotides)

CTCTGAACC AGATGAGCAG CCACCGAAA CAGAAGCAGA GAGAGCCGGA GTCTGGGAA TCCAGGAAGT CGCAGAGCAG  
GGGGCCAGC ACCCTCAGGA GCAGCAGCAG TCGCCGAKT TGCCGCTTCA TGGTCTCTG GCTCTCTTCA AAGTTCCCTT  
GCACGAGCTC CATGAAGCCA CAGAAACACC AGAAAGCATC CACCTCGTTC TGAATGACGT AGAGGATCGG GGAGAGAAGA  
TCACTCATGC CCTGGACGTA GCCGAGGTGG AAGTGATACA TT

SEQ ID NO:1727: (Length of Sequence = 285 Nucleotides)

GAGTATTGAT TTCAGGCAGG ACCCAGGTCC CAAAATGTTA GAAACAGTTA TCCTTTTCC CTCTGAGTTC GTTATTCTCT  
GGGGCCCCAG TATCCGTGGC TTAACAACCC GGCTGGATAG AAGGCACCTC TTTCCCCAGG TTCCAACAAG ATCCCAGAGC  
TGCTTCTCAT TGGCTCGTCC CTGAGTCAGT CACACTGGAC CGGAAGGTGA AAGGCCCTCA TTGGCCAGNC CCGAGTCATG  
TGCCACCCCC TGGGGATCCA GCTGTGGGNC TNCITTAACA GCATT

SEQ ID NO:1728: (Length of Sequence = 394 Nucleotides)

TTTTTTTGAT GAGGAGATAT AGCAAAGGGT CATTGCCCC TCCTTCAGAA AACTTTTCTC CAAATCTCCT TTAAACATAC  
TGCTTATCT TTCCCTCCAT AACTCCACCA GTCTCTCCAC ATCCCCCTCC AAATCTCTGT ATACATAGGC AAGAGAGGGC  
GATTCCAGC ACAAGTCTAG TCCTGGGCGA AACTTCATC TCTTCTCTG CATACCTCCT GTCTGGGTAT GGGGATAAGG  
GAGAGTATGG GATTTTGTTC TCATTACAT GCTTTTCA AATTTCTGTA ATATGTGSCA CTATGATCT CAGACAGA  
AAAATGATAT CGGGTAAAAC ATGCAACTGA GAGCAATTG GGGAAAAATC CTCAGNCAC AAAATGTATT ACTG

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SEQ ID NO:1729: (Length of Sequence = 301 Nucleotides)

GGAGTTAAA GTATTTATG ATGTGTTTAA ACTGTGTACA TTCTCCACAG ATCATATTAA GNGTITTKTA GKGGAAGTTT  
 AATCTGTGCA TAGTGGGTAG YGACATGAWT AGGGTCAAAG GGGAGGYAAA AGGAAAAAAA CAAAACAAAA ACAGTCACAG  
 GAAAWTAAAA ATACACOMCA GGTTACCAGA ACCTTCAGGT TTAATAATAA ANGNAAGNAA AAGCAGAAGC AGTGAGCATC  
 GGCATCAACC TGTACAAGCA TTACAAAAGG CTCCTGTGAC GGAAACACAA TTGTTCAAAG G

SEQ ID NO:1730: (Length of Sequence = 312 Nucleotides)

GACGRACGCT CTTGCCACGC CCTGAGCGTG TACACATGAT GNTTCTATG CATTCAACCT GCCCCCAGC CGGCCCTGCA  
 GAGGACAAGA TGGGTGGCCC CGGCTCCCTT TCCCCTAACC GCCCCTGCCC GCTGTGCAGC CGTGTGCGTT GGCGTGTGTT  
 TCTGTGTAC TGGCGTGTCA CGTGATGTAG CCGTGTTTGC TGACATGAGC CCCTGCCCCC TTCTCTGTTT CTCCGTGTGT  
 TTCTAGAGCT CTCCTCCCTC CTTCTCAGA GGGGACAGGA CTCCTGGGGT CTGGCTCGGG CCCAGAGCCA GG

SEQ ID NO:1731: (Length of Sequence = 392 Nucleotides)

ATCGGCTATG GGTCCCGTG CGTGACAGAG GAGTGCCCG TGGCAGTCAT CGCTGTGGTG GTTCAGTCCA TGTGGGCTG  
 CGTCATGAC TCCTTCATGA TTGGCACCAT CATGGCCAAG ATKCGCGGC CCAAGAAGCG GGCGCAGACG TTGCTGTCA  
 GCCACCACG GGTATTTTCG GTGCGGACG GCAAGCTCTG CCTCATGTGG CGCGTGGGCA ACCTGCGCAA GAGCCACATT  
 GTGGAGGCC ACGTGCGGGC CCAGCTCATC AAGCCCTACA TGACCCAGGA GGGCGAGTAC CTKNCCCTGG ACCAGCGGGA  
 CCTCAACGTG GGCTATGACA TCGGCTTGA CCGCATCTTC CTGGTGTGCG CCATCATCAT TTTCACGAG AT

SEQ ID NO:1732: (Length of Sequence = 352 Nucleotides)

GTACCTAGTA CCTAGATAA AGGGAAATGT GTGATCTTA ATGAGCTTAA AAAGGAAACA ACTTCTTTTT TTTTTTTTTT  
 TTTTGTAGAC GGAGTCTCAT TTTTGTCCCC CAGGCTGGAG TGCAGTGGCG CGATCTCTGC TCACTGCAAG CTCGCTCTCC  
 CGGGTTCAG CCATCTCTCT GCTCAGCCT CCGAGTAGC TGGGACTACA GGCTCCACC ACCACGTCG GCTAATTTTT  
 TGTATTTTWA GTAGAGACGG GGTTTCACCG TGGTTAGCCA GGATGGTGTG GATCTCTGA CCTCGGTGAT CCACCCACCT  
 CGGCTCCAA AAGTGCTGGG GATTACAGGC GT

SEQ ID NO:1733: (Length of Sequence = 321 Nucleotides)

TTTTTGTGTT GTTTGTTTGT TGTGTTGAG AGTCTTGCTC TTGATCTATC TCCAGGCTG AAGTACAGTA GTGTGATCTC  
 GGCTGTCTGC ACCCTCTACC TCCAGGTTT AAGCAATTCT CATACCTCAG CTCCTGAGT AGCTAGAACC ATAGGCACAC  
 GCCACCATAC CTGCTAATT TCTATTTTT AGCAGAGACT GGATTTTGCC ATGTTGGCCA GGCTGGTCTC GAACTCCTGG  
 CCGCAACTGG ATCTGCCAA CTCAGCCTTC CAAAGTGCTG GGATTACAGG CATAAGCCAT TCATGTGCGG TTKTTCAACT  
 G

SEQ ID NO:1734: (Length of Sequence = 208 Nucleotides)

AAGTCAACGT ATCTATTTTT ATTATGAAAC ATTAAATTTT GACACATTGC CTCATTTGCT TTTTAAAT CTATTATCTG  
 ACTTAAACCT ATTACGAAA AATGCCAATA AATTATATTA ATCATACTTT GGGTCTTTTT AAAACTAGGA ACATAATATG  
 TTTTATGATA AACAATAATA CTAATCTGA GTGTATGAA CTGTTAAC

SEQ ID NO:1735: (Length of Sequence = 347 Nucleotides)

TCTATTACCT GTACAGTATG GTTATACGT TGGTCACTT CTAAGGGGGA AGCGGCTAG GGAGGAGCC TAGAAGGAC  
 CGGACGCTG TNCACCCCA GCGCTGCCCC TTGGCGCAG AGGCTCAGC CCTGGGGAGG GAGGGGGCAC TGGTCCCCC  
 AGCCTCTCA ACCCCCAAAC TGCTGCTGCG GGGAACCCG CCCACCCGCT CTCAGAGCC CTCCTCTTG GACTAGAGCG

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GCTGGGCAGA GCTCTAAACA GGGGCAGGGG CTCTCTGCC AGCCTGTGGG CATGGCAGTC ATTCTGGAA GGGGCAGGAC  
CTCGGCCCTT GTCCATTTCG GGGGGAA

SEQ ID NO:1736: (Length of Sequence = 356 Nucleotides)

GACACAGGGA GGGGAACAAC ACACACTGGG GCCTGTGGG GAATGGGGG TGAGGGGAGG GAGAGCATCA GGACAAATAG  
CTAATGCATG TGGGGCTTAA AACCTAGATG ATGGGCTGGG CGTGGTGGTT CACGCCTATA ATCCAGCAC TTTGGGAGG  
TGAGGGGGC GGWTCAGAG GTCAGGAGAT CAAGACCATC CTGGCCAACA TGGTGAAACC CGCCTCTAC TAAAAATACA  
AAAATTAGCC AGGCATGGTG GTGCGTGGT GTAATCCAG CTACTCAAGA GCTNAGGCA GGAGAATCAC GTGAACCTGG  
GAATCGGAGG TTGCAGTGA CCAAGATCAT GCCACT

SEQ ID NO:1737: (Length of Sequence = 324 Nucleotides)

TGTTTTCTAA TGATTTTAA TTTTCAGAG GAAAATAATT TCAAGAAATA AACTTAATT CCCCTGAGTC CTTATTGAAT  
TAAATATGA AAAACAATGA ATGAATGATG CATTCTTATT AATGGACTGT AAGAACTGA TATAATGGAC TTCATTCTAC  
AATTGGTTT CTTATTGTCT TACACATGCT CCTGAACTT AAACATTTTA GGACCTAAC ACCATTTCCT TAGTACAAAT  
ACTAAAAGAA AGCTTTGGAT AATATAATAT CAGGGAAGAT AGTACAACAT AGTGAAGGAT GACATAGGGA AGATGTGAGG  
AGCA

SEQ ID NO:1738: (Length of Sequence = 316 Nucleotides)

GGCACCCCTGG GCATGTCCAG CCTGGAGCAG CTGGAGCAGA ACTTGGCAGC AACAGAGGAA GGGCCCCCTGG AGCCGGCTGT  
CGTGGATGCC TTTAATCAAG CCTGGCATTG GGTGCTCAC GAATGTCCA ACTACTTCCT CTAGGCCCAT CATGGCTCAG  
GCTGCCAAG GCTTTTNGT CACCTCTTTT GTTCTCTCAC ACTGACCAGT CTGGCCCTTA AGCTGACTTA GAAGGGTTT  
TCTGAATGT CTAGATCCAT GCATTATTTT TCTAGCTTCC TGCTGTGCTC CCTATTCACT TTACACTGTG AAAGGT

SEQ ID NO:1739: (Length of Sequence = 398 Nucleotides)

CAAAAACCAT CTCAGGATAC TGAGAAGCCT CTGGAACCTG TGAGTACTGT TCAGGTAGAG CCTGCAGTTA AGACTGTAAA  
CCAACAGACT ATGGCAGCAC CAGTAGTCAA AGAAGAAAA CAACCTGAGA AAGTCATCAG CAAAGACCTT GTTATAGAGA  
GGCCTGACC AGATTCAAGA CCAGCAGTTA AAAAGAATC AACTTTGCCT CCCAGGACCT ATTGGAAAGA AGCTAGAGAG  
AGAGATTGGT TTCCAGATCA AGGATACAGA GGTGAGGCC GAGGTGAATA TTAATCCAGA GGGTGAAGC TATAGAGGT  
CTTATGGGA GGGCGTGGC AGNGGGTTGG TAGGGGGACA CACTTCGAGA TTATCTCAG TATANGGGC AATAAGCC

SEQ ID NO:1740: (Length of Sequence = 376 Nucleotides)

GAATAAATTC GCAAACTATG CATCTGACAG AGGACTAATA CCCAGAATCT ATAAGGAACT CAAAAATCA GGAAGAAAA  
AAATCCCATC AAAAGTGGGC TAAGGACATG ANTAGACAAT TTTCAAAGA AGATATGCAA ATGGCCAGAA AGCATATGAA  
AAAATACCA ACATCCCTAA TTATGGGGA AATGCAATC GAAACCACAA TGCAATACCA CTTTACTCCT GCAAGAAATG  
CCATAATTTA AAATCAAAA AATAATAGAT GTTGGCGTGG GATGTGTTGA AAAGGGAACC ACTTTTACAC TGCTAGTGGG  
GATGNTAAAC TACTTCGGCT ACTATAGNAA ANCAGGATGG GNGGATTCCT TAAAAG

SEQ ID NO:1741: (Length of Sequence = 322 Nucleotides)

CAAATGCAA AATCAAGACT TGTCATAAAN TGATCTCCA TAGCTATAA TGTTAAAT ACNTAATN TATAGTAAAT  
CTTGATGTTT AATACAGCAA ATGTAAACC AAGCTTTCAC TACAGAAATA AACAGAAAT TATAGGCGCT CATTATCCTT  
TEAGACAAAG TTGTATTTGC TTTGCTATT TTTTGTTTA GNTTTTTCG AACTATTICA CAAACAGGNA CAWRATATT

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TAAATTGTTA ATAGAARTTT CCAGTTTCTT TTAGTCTCTG GCTACTCCAA GTACTGGTIG CTGTGAATGA CCTTTTCATG  
AG

SEQ ID NO:1742: (Length of Sequence = 322 Nucleotides)

CCCCCAGCC AGGAAAAAAA AAAAAGCTT TGAGGAATGA GAGAGGGTGA GATGGGTGGA AGAAGGTGCT GGGCAGCCAC  
GGGCGCCACG CCTCANTGGC CCCAATTGCC GAAGCCGATC TCCTGCTTGT ATCTGTTAGT GAGGATGTTG GCTTTGCGCG  
TNAGTTTGA GAGCACAGTG TGCAGCCCGC GCAGGTGGTA GTGGAACINC TGTTCAGGT CTTCTTCGCC GGGTCCGAA  
CCTTCCAAGT GGGCCAGGTC CACCAGGATG TCCTTGGGAC TTCCAGGCAC TGCCCTNCTC GNTCCCAAGC CGGTNGGAGG  
CG

SEQ ID NO:1743: (Length of Sequence = 250 Nucleotides)

ATGGGTAGGG GGCCAACGCA GTCACGCGG TCCGAGTCA CAGTCCAGCC ACTGACCGCA GCAGCGCCCT TGCCTAGAGC  
CGCTTGACG GAGAACACTG AATTGCCAAC GAGCAGGAGA GTCTCAAGGC GCAAGAGGAG GCCAGGGCTC GACCCACAGA  
GCACCCINAG CCATCGCGAG TTTCGGGGCG CCAAAGCCAG GAGAAGCCGG CCATCCCGCA GNCCTGCTC TTTCAGCGAG  
ACGNGAGTTT

SEQ ID NO:1744: (Length of Sequence = 247 Nucleotides)

GATGATTGAG TGTTCCTTTA AAAATAAAAA CCCCAAAAAA AAGCCAGAAC ACCCTACCCA ACCCAGCCCA GTGTAACAGG  
TTAGCCATTA ACACAGNATA AAGAWGGTCC CAGCCACACA CGTCATTACT CGGCAGAGGG TGTCCAGKCT GGTGKCCGA  
CGTCACAGTG GATGGCCCTG CGTGGCTGGG RCACAGACAG GNGCAGGCA TGGCACCTTT CGNCACCGAG AGCAAGCATA  
GGCTGTA

SEQ ID NO:1745: (Length of Sequence = 379 Nucleotides)

TTCTAAACCA GTTAATAAAT TCATTCCACA AGTATTTACT GATTACCTGC TTGTGCCAGG GACTATTCTC AGGCTGAAGA  
AGGTGGGAGG GGAGGGCGGA ACCTGAGGAG CCACCTGAGC CAGCTTTATA TTTCAACCAT GGCTGGCCCA TCTGAGAGCA  
TCTCCCCACT CTCGCCAACC TATCGGGGCA TAGCCAGGG ATGCCCCAG GCGGCCAGG TTAGATGGT CCTTTGGCT  
TGTCAGTGAT GACATACACC TTAGCTGCTT AGCTGGTGCT NNGCCTGAGG GCAGGGCAGG AAAATCAGAA TAGCATTTC  
TTTCTCTGGG GCAAAAATGG GAAAGTTCAG CGGNGNCAG CAGGAATCAA GTGGGCATT

SEQ ID NO:1746: (Length of Sequence = 472 Nucleotides)

TTCATGCTGT CCCTTCATTG AATTTTAGAA TGATTGAAGA TAGTGGGAAA AGAGGAAATA CCATGGCAGA AAGAAGACAG  
CTGTTTGAG AGATGAGGGC TCAAGATCTG GNTGCTATCC GACTCTCCAC CTACAGAACA GCATGCAAGC TTAGGTTTGT  
TCAGAAGAAA TGCAATTGTC ACCTGGTGGA CATATGGAAT GTCATAGAAG CATTGCGGGA AAATGCTCTG AACAACTGG  
ACCCAAACAC TGAATCAAC GTGTCCGCT TAGAGGCTGT GCTCTCCACT ATTTTTTACC CAGCTCAACA AACGGGNTGN  
CAACCACTTC ACCAAAATCC ATGTGGAGCA GTCCATCAGN CTNCTNCTTA ACTNCTGCT TGCAGCGTTT TGATNCCGGA  
AGGCCATGGT AAAATTTTCA GTATTTGCTT GTCAAAAANG GGTTTTAGGC NCCATTTGTG TGGGAGGGGA AG

SEQ ID NO:1747: (Length of Sequence = 351 Nucleotides)

AGGATCAGAA TACTTTAATA AGATACCACT GTCAAAATAC ATTTCCCTAT AAAGTTAAGC TCCATACAG TTATAATGTT  
GTAGTAGGA ATTCGACAAT ATAATAAGT TCATGAATC GTTACGTTGA CAGGTAGGT TAATGAGAG ATTCGAATAT  
TTTCCAGTGT TTTAGTAAAA CTGCAAGGGT AAAATGCCCT TAATGCCAGG GCAACACACA CAGGNAATCA AATACCAGCA



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TTTACACGNC AGTAACCCCTT CAAGTTCCTGC CACCCTGTGT GGGGGTAATG CCGTGCAGCT AAAAATATGG GTTTTACGNA  
ACANCCATGG CCTAAGGGGA TTTCTCATAG G

SEQ ID NO:1748: (Length of Sequence = 428 Nucleotides)

AATAGCTTCA GCTGATTGGG TGAGTCCAT TCATGTTATA AAAGGTACTC TGCTTTCCTT AACATTCCAT AAATCTTAAT  
CACATCTGCA AATACCTTCA CAGCAACATC TAGACTAGTG TTGACCCAA CAACTGGGCA CAATAGTTTA GGCAGCTTIA  
CACATAAAC ATCATCACAC TATGCTTCTC TTCTGTGTC TTGTTACCA CGTATCTGTT CCATGTGTTT TNCCTTGTAT  
ATATCCTATC CTGTATATC TCTCCTATGG TTTGTGGAA ACTATAAGCC TTCTGGGGG TAAACACTA TATCTTTGTT  
CAATGTATA TACATCGNAT AGTATATCAT GCGTGGGGC ATTGGTTAAA CCCCCATTT AAATACAGCT NGGCAGCAGG  
ATTTTAGGCA TTCCGTCTAG GTGTGCA

SEQ ID NO:1749: (Length of Sequence = 478 Nucleotides)

GGTTTCACCA TGTTGGCCAG GTTGGTCTCA AACTCCTGAC CTCAGGTGAT CCACCTCAGC CTCCTAAAGT GCTGGGATTA  
AAGGCGTGAG CACNCACAT CACACCTGGC CCTCAACCAT CTCTTTCACC TTCTGCTCAT GACAGTTTAC TAGAATTTTT  
TTCCCTTGAG ACTGAATGTT AAGTCAAAAA CAATAAAAAA TTGCTAATCA TTACTATGAC TCAGAGCTA CTGCTTCTT  
TAAATATTC TGAANTATA AAATATAAG CCAAAGCAAT GAATTTCTAA TGGTGAATT GTAGACTG TGGCCCCCT  
GGGCTGTTA TTTTCAGATG GGGCAAGGGG ATATTCTTAA CCTATTTTAA AAATCATGCC AGCCTAGATA ACTATGTGAA  
AAATATATGG GGTGCTTAGC AAAACTATTA CTTAGCACC CTGTGGCAGT TTACATTAA AAATCCCTTT ATTAGGTT

SEQ ID NO:1750: (Length of Sequence = 439 Nucleotides)

GACATTTTAT TTCCAGGTG GCACGTGAT AAGGCACAGG GGCAAATGGC TTGGGGTCC TGGAACTGGA AATGGAGACA  
GGTGTGCTC AGGTGTCCCT GCTCCACCA CCCCCTAAGT GCACTTGAGA CAGGACCACT GGTGGTGGTT CCAGCCCAGG  
GTCTGAAGG GTNCCACTGG CTCTAGGGGA GAGCATGGG GACAGCTCCC CAGGOGGAC CCTCTACTCT CCAGCTACCC  
AGGAGGGACC CTNCTCTCT AGGGGGGAG GGCAGCTCCA AAGTGCTTNG TGGCTCCCCA GGCCTAAGGG ACCAGCTGTC  
CAGGAGGGC TNGGNTCANA GAGAGAATAG TAAGATNAGA CGAGGAGAAG CACCCCACTA GCACGGGAT TGGANAACAC  
TNTCGCGGT ACTGTCATG TGGTAAATTT GCCAANTTC

SEQ ID NO:1751: (Length of Sequence = 347 Nucleotides)

CTCTATTACT TATGATTACA CCATGGCAAT ATTCTTTTT CACCAGGAGC TTGGACCTG CGCAGGTTGT GGCATGTAAT  
CACCGGAGC ATGTAGTCAT CTGTAGAAAT CACAGGCACA CTCATGTTTG CTCGGGAGG AATCTGTTTT CCACAATGAC  
TCCCCCAGC TAAATGACAC ACTGGCATTT TGCATGCCTT CCTCACACAT GGGGCACCAG CCTTGCTTCA GAACACCCA  
AACTCCACAG AGGCCCTTAA ATATGGGCTA GGGACAGATT TTCTTTAAGA AAGAGTTAAG GAGCAGCTT ACRAAGGGAC  
AAGGCAAAAT CCACAAGTCA GGCAGCA

SEQ ID NO:1752: (Length of Sequence = 297 Nucleotides)

GGATATTCTA GCCATACAGA TTCAATGGAA CAGAGAAGAG AAAGGAGGTT CCATTGGCAC CATAGTGAGC CATTCATTG  
CCAGGGAAG NNGGTGGGG CTAGGGGCT AGGTTTGGTC CCATGGCTAC ATTAAATGCT TGGCATGACT CCAGGGCTNC  
TCTAGTATG GGCTCCAGCA CAGTATGAGT TAGGTGAGTT AGGTGTAGGA GTTGGGGAC AAGGAAAAAG GGAGGAGGG  
TCCCTAGAGG CTNGTGCCC ATTACATAGA CTCAATTCG TCAATGCGCT GCTTAG

SEQ ID NO:1753: (Length of Sequence = 402 Nucleotides)

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AAATTTAACT TCAACAAGCT GGTGATGCCC AACTACCCAT TCATCAACAT TCGGTCAAGT GGTGTGGTTC CTCAGAGTGC  
 ACCACCAGTG CCAACAGCCT CTTCCCGGTT CCATTTCCTA CCTCTGGACA CCCATTCTCC AACCAATGAT GTGCAGCCGG  
 GACGGTTCCT TGCTAGCTCC CTAAGTCTT CTGGCCAGGA GTCCAGTAAT GGTACTGATA GAAAGACTGA GCTTTCAGAG  
 CTGGAGGATG GCTCAGCTGC TGACTGGCGC CGGGGTGTGG ATCCCGTGTG CTCCAGGAAT GCCATTGGTG GAGGAGGGAT  
 TGGCCATCAG AAACGCAAGC CTGACATAAT GCTTCTCTG TTTGCTAGGC CAGGGATGTA CCTGACCCC ACAGTCCTTC  
 GT

SEQ ID NO:1754: (Length of Sequence = 397 Nucleotides)

CAGTGGCATC TATGGCTCTA AAATGGAAAG GAGGAGTCTT GGATTGAGGC TACTGACTTA CTCTGTGAAT TTACACATAA  
 CTTCCTTTGA GCCACAGATT TAGCATTCTA CCAGTCACCT GATATTCTTG AGCAGCCACA ATATTTTAAA ACTATATTTA  
 AATCTGAATT TGGATTTAGC AGAATTTTAT TTTTCCATT TCTATTTCT ATGGTCACTA AATTGAAATT ACAACCATG  
 TAAAATTTGA TATCATTAAT TATGTAGGAC TTTATCCAGT TTCAAAGTAA AGATGTCTCT AATGTAATTA ATTGTNATTT  
 TCACTGATGA GACTGAAATA CAATCAGTCT GTATTGTGTG GTGCGTATGT ATCAGTGGTA AGAGGCTATG ATTAGAC

SEQ ID NO:1755: (Length of Sequence = 353 Nucleotides)

GAATTACTCT GTTGTTCACC TTTTGCTTTT TGCACGTGTT GTNCTCTTAT CTGTATTTTG AGCTTAGTGC TAGGACTGAG  
 AGGCTGCACC ATAGGGAATG TATGGGAGAT GGTGAGGGGT GCCAGTNAAG GGTGCGTGA GGAGAGGCT GGGCTCCTCT  
 ACTGGATCTA CACTCTGTCC CAGGTMTTA GATCCCACTG AGCCAGCTG ACTGAAAACA AGGACAGTCA GGGTGAAACT  
 TCTTTTGCCA GAAGTGTGGC CTGAGTTGAA TTTCTGGGAG GATGACGAG ATGTCTGTG CAGAGCTGGG CTGAGAGTTC  
 TNCATCTAG CTCTGACTTA GGTCAAGGGG CCT

SEQ ID NO:1756: (Length of Sequence = 184 Nucleotides)

TGGGCTCGGA GCATCGAGCT GGACATGCGC ACCATTGCCA CTGCACTGGA ATATGTCTAC AAAGGGCAGC TGCAGTCTGC  
 CCCTTCCTAG CCCTGTTC CTCCCCAAC CCTATCCCTC CTACCTCACC CGCAGGGGNA AGGAGGGAGG CTGACAAGCT  
 TTGAATAAAA CACAAGCCTC CGTT

SEQ ID NO:1757: (Length of Sequence = 425 Nucleotides)

ATTACAGGCG TGANCAACCAC ACCTGAGCTA ACTTCTGGC TTTTCAATCA AACCATCTTT GTCACTTCCT GTCCCCACCT  
 GAAGTCAGAA AGCCTGAAGA GAAGACGGCT CTATTGCCNC AGCTGGAGTG TGGTGGCACA ATNTCAGCTC ACTGCAACCT  
 CTGCCTCTG GGTTCAGGCG ATTCTCTGT CTCAGTCTCC TGAGTAGCTG GGATTACAGG TATGCACCAC CAGGCCCTGC  
 TACTTTTTCG TATTTTATG AGTAGAGATG GGGTTTCACC ATGTTGGCCA CGCTGGTCTC TATCTCTGA CCTCGTGATC  
 CACCTGCCCTC AGCCTCCCAA AGCGCTAGGA TTACAGGCGT GTAAGCCACC ATGCCCCGCC AATTTTGCCA GTTTTATG  
 GGCTATTCCT TATTGAGATC TAGGG

SEQ ID NO:1758: (Length of Sequence = 407 Nucleotides)

AGGAAGGCAT AAGCTAAGCA TCCTTCTAAC CAGTTCCCAA AGTCCCATCT GCCTCCATGT ACCAGCTGAT CGCAGAGCTG  
 GACTGGGGCA GGCTGGGCTT CCAGGAAATT CCTGAAGTTC TGAAACAGCT TCCCCTCTAG AGAAGCCAC CCAATGTGT  
 TTTTAGTGAC AGGAAGAAAG GAGGGAAGAG CTGATGTGGT GTGGCCTGCC CATATCATAC AACCCACCA GGAGCAGGGC  
 AGTTCCCAAG GTGGGTGCC GTAGATCTGG GAGGCCAGGC TGGCATGATT CCTGTGAAGA ACTGTGCTG TGTGTCAGG  
 GAGAGGCTG AGCCCTCTCA GAAGCAGGGA CAGCCACAAC TGAAGAGCAC GCCAAGCTGA GCGAGGAGG GAGCTGGG  
 GAGCAGT

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SEQ ID NO:1759: (Length of Sequence = 386 Nucleotides)

ATATATTTTT TTGTTAAAT TTCTTTGTAT TTTTTCCTG CAAGACTTGG TGTGCGCGC ACTGTTGTAG TTAACTTCA  
 ATCCCAAATT CCATGAAATA GAAATCAGAA GTAAAGGTTG AGAGGGGAGG AAGGAGGGAG GCAAGCCAAG GAATAAACAA  
 GAGTTTGACT AGAAAAAAG AAGAGGGTAT GTGTGGTGGG CATTCTCGG CAAGGOCATT CCTTGAGGA GGGGGTTGGC  
 AGGCAGCTTG CCTCTGCCTC ATGCAGGGGA GGGAGGAAAG ATCCCTGGG GACCCGTCAG TCCCTCTTC CTAGGGCTTC  
 CTGCTCCAG GGGAAAACT AATACCAGAG AGGGATCAG CACAACCTNA AACAGGGCTC TTCACC

SEQ ID NO:1760: (Length of Sequence = 395 Nucleotides)

CTTCATGCT CTGCGCGGT CCAAGCTGGC CAAGAAGAGG GAGGAGGCCA TTGAGAAGGC CAAGCGGAG GCTGAGCAGA  
 AAGCCGAGA GGAGCGAGAG GNGAGAAGGA GAAGGAGAAG GAGCGGGAGG AGAGCAAGAG CGAGAGCNTG AGGCAGAGCG  
 GGCGGCTAAG GCGTCCAGCT CAGCGCATGA AGGTGCGCTC ANTGACCCAC AGCTCAGTGG TCTGGCCAC ATGCGGCCAT  
 OCTTCGAGCC ACCACCAACC ACCATTGCTG CTGTGCCCC CTACATCGGG CCGACACAC CTGCCCCG GACTCTGAGC  
 GAGTACGCC GCGCCACGT CATGTGCCC ACCAACGNA ACCAACCTT CTACATGCC TTAACCCAG GACCC

SEQ ID NO:1761: (Length of Sequence = 378 Nucleotides)

CCCACGAG CATTCAACA AGGCTTACCA CACAGGCCCC AGTACCTTTC TACTCTACAA TGAGGCTCAG AAGCTCAGTG  
 TACCACCCA TCCCAGGAG GCGCACTTAG ACCAGAAATC CCAAGTCCAT TAGCTACAGG CTGATATCA GGGACATCGG  
 TGTAACAAA GAAGTGGGAT ATGAACATA TCCCTGATTT TTTTCTTTT TTTTMTTTT TTTTGAGAC TAAGTCTCAC  
 TCTTGCCCC CAGGCTGGAG TGCAATGGG CGATCTGGC TCCTGCAAC CTCGACTCT CAGGTTCAAG AGATTCTCT  
 GCCTCAGCT CTAAGTGGG GTACAGACA CCTGCTACCA TGCCCGGCTC ATTTTTTT

SEQ ID NO:1762: (Length of Sequence = 351 Nucleotides)

TGATAAATA AGAAGTTCAA AAAATCTTT TAATAGAAGC TATAAATAG CAGATAAGCT AAGTCATCT CATAAACAC  
 CATTGTTCAT TTGAATGCT GCATTGTGGC CTGTTACTTT TAAGTAGTCT CACTAATTTA TAGTTATATA TGATGTAGAT  
 CTAGATTGTG ATGTACACTA AGTGGGTTGA TCCYGAGATC AAGCTATGAT TGCTGCTGC GTAAAGTGT CCYTTTGGGA  
 AATAAATAAT CTTTCATATC GTAAACTTT GGTATAATTG GTTATTTATG CAATGTATTG TTGTGGTTGT CAACTCAAGA  
 TTGTATCTC ATCTGGGAC ATTATGAATC T

SEQ ID NO:1763: (Length of Sequence = 157 Nucleotides)

GTGTACTT AGTGTGTAAG GTGAACAAGA AAAGCAGCAT AATAAAGGAG CTGTGTTTTT ATCAGAGGAG CCTTCTCT  
 GAGTTTTTAC ATAAGTTGAT GCCTTCACTG CACTTTGAA TACAGTGCTT TGAATGTTGA AACACTTGAA TAAATG

SEQ ID NO:1764: (Length of Sequence = 321 Nucleotides)

GCTCTCTGC CTCAACTCC TCCAGCTTCT NACCACTGG CAACGCACCA CTGCCAGTTC CTCTGGGCT CTCAGAATCA  
 CTGGAGTACT TCTGCAGCTC TCTGGATGA CCTAGGGGTG CAGCAACAGG CACAAAGCTC TCTCCAGGT CCTGGATTTC  
 TTTATTTCTT CCTTCTCTC TCTTGGTGT ATTTCCTG TGAGNGTCTG ACTCTATCAC TTTCAAAGCT GTGCTGTGGA  
 TTTGGGTCTT TAGATGAGC TTCATGCCCT GGNATAAGCA AAGGAGCCTG ATACAGAGTT GGCCTGCAGG GAGCAGCTT  
 T

SEQ ID NO:1765: (Length of Sequence = 420 Nucleotides)

TCAAGCTGT NATCTAGCA CTTTGGGAGG CCGAGGTAGG CAGATCACCT GAGGTTGGGA GTTCGGGACC AGCCTGCCCA  
 GCGCGAGAA AACCGTCTC TACAAAAAT TTTAAACTT AGCCAGGCGT GGTGGGCGAT GCTGCAGTTC CAGCTACTCG

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GGAGGCCAAG GCTGCAGTGG GCTGTGATTG TNCCACTGCA CTCCAGCCCA AGTGACAGAG CAAGACTCTA TCTCAAAAAT  
 CAAACAACAA CAACAACAAA ACACCACATA CACACACACA ATGAGGGTAA ACAAATAAG TATGTGTGGG TCACACTTCA  
 GCAGGGGTG CTGGTTTGGC AGAGGAAAGT GCAATTATTT TATCTATGGG TGTTTATTGT CTCCACTCTA AACTGTTCAGT  
 TACAGATGGC AAGACTGTTT

SEQ ID NO:1766: (Length of Sequence = 373 Nucleotides)

GTAAATACT AAGACACTAA ATGCGTATTT TAAATTTGCC CATTAAGTTT TGGGCTGCGT AAGAAATTAG TAAAAAATAT  
 TTCCAAATAA CATGCAGAAG TTGTTTTTAA ACTTAAATC TCATATTTTA GCTACACCA CAGCGATGCT ATAGAGAGGA  
 GCTGGATTTC GTTGTATCTG AATGGCTCAG ATTATGTTCC TTCCAAAAA GTTATTTTAT GTACGATCAT TTTTATATG  
 ANGCAATGA AAAATCACCC AGAATCTACC ACGTATTTAC CACATAGACA AATGTCCATC TTTAGATCTG TCATTCAACA  
 CCAATTTATT CTTTTATGC AACAGAATGC AGTGTGTGA GAAGTACATC AAG

SEQ ID NO:1767: (Length of Sequence = 330 Nucleotides)

GGTGACAGTG GCGGCANAGC AGCAGCATGG TGGCAGCCAC CAGTGGGCTT GGGGCCCCCG GGGGAGAGGA TGCCCCAGAG  
 GTGCATGAGC AGACCTCGTA ACCGTCTCC GAGCGGCTCT GGTTCATGTTG TCTTGGAGGG GCGCGGGGCC CCTCTGCCGC  
 GTCCAGCCCC GCAGCCACAG ATCCATCGGC CTGTGAGTCT CCACACACCA GCCAGTCCCG GCGGTGGAC TGTGGGTACC  
 CGGGTGCCAC CTCCAGCTCG CCATCCAGCA CTTTCCAGTA CTCTGGCCA CGGAAGAAGT AGGAGGCACC GTNGGACCAG  
 CGCATGGCGT

SEQ ID NO:1768: (Length of Sequence = 361 Nucleotides)

AACTGGAAAA CCAAGACTGG TAGACTCTCT TTTCTTCAG ACAATAGGCA GGAGCCAGGC GGAGTCCAGG GATTCTTGA  
 ACACCTATCT TTTCTTCGGA GGACACTAAG TTCTATTGA AGACAAAGTT CAATATGGCA ACAGGACTGA TGGGACACGA  
 AGGAGTCGCT ACCGTGATTT GGTGACAGTT CTTCAAAACG ACAGTNTCTC AAGGAAAGGT GGACCTAGGA ACTCCTGAAC  
 TTTTGGGTG CCTTAAGTGA GAAATCAGCA TGGCTCAGGC AAGTCTCTG GCTTGTGAAG GCCTAGCAGG TGTGAGTTTG  
 GTTCCACTG CAGCCAGCAA GAAGATGATG CTGAGCCAGA T

SEQ ID NO:1769: (Length of Sequence = 389 Nucleotides)

CAACTACCGC AGCGCCAAT TCAGAGAGCA CATCCAGCGC CGGCACCGGT TTTCTTATGA CACTTTTGTG GATTATGATG  
 TTGATGAAGA GGACATGATG AATCAGGTGT TGCAGCGCTC CATCATCGAC CAGTGAGCAG AGTCCGTGCT TGCTATCTGT  
 CTCATGTTAC AGAGCTTCCA TTACATATTA AAGTGAAAT CTATGACTCC TGTACCTTAC CTGTTCACCA GACCTGAAAA  
 TGAGCCATGG CATTGGGACA GGTCACTTC TGACAGGGGA AGTGGGTCCC CAGGTCAGCC CTTCTCTTCC CTTTGGGCTC  
 TTGCCAAAGN TGTCTTCCCC TACTGTTAAN CTGTTTTGTG ACACGGTGA GTTGTATTG GGTCTCGG

SEQ ID NO:1770: (Length of Sequence = 394 Nucleotides)

GCAGTTTAGA GGAAGCTCCT TCTGGGCAAG GTCAGGCGGT CCTCCTTCCC TCTCTCTTC CCCTTTGTCC CAGCCTCAAC  
 TGACTCTGGC TGTGGGAGGT GTGGAGGTC CTTAGGCTTC CCTCCCCAAC CTGGCCTCCA CCAACACCCC TAACAGGAGG  
 CCGTGGGAAG GCTCAGCCTC TCTCCGCAT CCTCCTCCT TCTGCCTAT CGGAGGGAGC CAGGGTCCCC TAGGCTGACC  
 CTGAATCTC TTCCTCCTT CATGGGAGG GGCAGGAAT CCAGAGGAGG ATGAAGCCAG CGGGACCACA TGGCTTNGTG  
 GCTTGACAA ACAAGCTCAG GGAGGAAATG AGGAGGCGNC GGCTTCAGAG AATGCAAG CTGTGGGCA CAGA

SEQ ID NO:1771: (Length of Sequence = 373 Nucleotides)

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CAGAAAAGGC AAAGTTTATT CCAGTGTGA CAGAGAGAGG GTGAGCCTTG CACAGCAATT CTAAAAACAT GTCATCTCCT  
 TCACCTAAGA GGTAAGANCC GGCTGTAACT CATGGGGTCA CTAAACCGGC CGCAGTTACA GTAAGCAGAA GAGGTCACGG  
 CTCAGGCCTT CTCAGACTTT CCTTGGGACA CACGGCTCTC TGGGGGGGCC CGGCGAAACC ACTCGGACCA GGAGCCATCG  
 TACACGGCCA CATCAGGCTT NCCGACAGAG TAGGCAGCCA AGGNCACGTG GCAGGCGGTG ACTCCCTTGC GGCAGGTGGC  
 AATGAGAGGC TCGAGAGAT CCACCTTCTT GGGCTTGAAC AGAGCACGGA GCT

SEQ ID NO:1772: (Length of Sequence = 281 Nucleotides)

AAAGTGCTGG GACTATAGGC GTGAGCACTT GCATCCGGCC TAGGTGGGGT TTGTCCCCG TTCTGCAGGA GGGAGACTGA  
 GGCTGGAGG TTCAGGGCCT GCTTGGCTGT ACCAGCCCC AGTATGTGCC TTGCCACAC TAGTCAGATC CTTCCCTCC  
 CACTCTGCC ACCCTGCTCC TGCCCTGTCC CATAATCCAG GTTGAATGGG GGTGGGGATT TTNGGGAGCA AGGAGGGCTC  
 AAAGAGATGG AGATAGGCT GTTGTACGGC CAAAAGTGCA A

SEQ ID NO:1773: (Length of Sequence = 401 Nucleotides)

CTCTCTGCCA TGCTAACCAA CGTAGAAGAG AATAAGATA AGCAATGAAA AGCAGAGTGG CACTCTGATA TATAAGATT  
 TCTAAGAAAT ATAGAGTGAA TTTTGCCCAA AGGCCCTCAG TGAAGTAATT CCTGAACCAA AAGAGTATTT CTTAATCCAA  
 AACTTTACAG TATTAGACCT ACGAATTCTG ATGATGCTG ATCAGATGCT AGTTGTCTC GACAATCCAT GCAGTTTTCC  
 AGTATGAAG AAAGTAACAA ATATACCATG GTTATCTTA TTCTTTCTG AAAAATATCT AGGATATTTT ATAGTGTCT  
 GTGGTAAAT ATTCAATTGA CANTACAAT GAAGTATAAT CAGAAGTATT AGCAATTTTA CTTGTGTTAT CTTGTTAATC  
 C

SEQ ID NO:1774: (Length of Sequence = 230 Nucleotides)

TCGTATAAAA AAAAGTAAAA ATGTTACACA TAGGNAATAA ATGTAAAAAG CTATACTTTG CCAAAATAAA GTTTCAGCTG  
 AAGGTAATGC TAGTTATAAA TTAAATACAA TTCTATTAG NNCTTGCAA AGTCAAAGGA AGACGGNAAA CTCCTCTTT  
 TGGAATTCA AAGGCAAAGA CCTGTTCATT TATTCTTAAT TTINCTTAT ACAATCATTA TCCCCACAG

SEQ ID NO:1775: (Length of Sequence = 359 Nucleotides)

ATTGAGGACA TAGGCATGGG CAAGGACTTC ATGACTAAAA CACCAAAAGC AATGGCAACA AAAGCCGAAA TTGACAAATG  
 GGATCTAATT CAACTAAAGA GCTTCTGCAC ATTAAAGAA ATTACCATCA GAGTGAACAG GCAAACCTACA GAAATCTAC  
 CCATCTGACA AAGGGCTAAT ATCCAGAATG CTACCTAATT TTTAAAGACT TTTTCCGGCA TCTTGAAAAA AACCACCAIT  
 ATTTGACATA GGTAAAACTG AAAAAACAAA CTATTCATAA TTACAATTG TGACACATTA TGTAGTAGCT AGGTTTCATC  
 CATAAATTAC ATGNTACCCC AGTTCAAGTT AAATTCAG

SEQ ID NO:1776: (Length of Sequence = 375 Nucleotides)

GGCAGAGGCT GCAGTGAGTC CAGATGGTNC CACTNCACTC CAGCCTGAGT GACAAAGTGA CACTCCATCT CAAAACCCCA  
 ACTCCCCCA AAATTTTTAA TTTGGTTTGC ATTTCTTTGA TTATGTTTGN GGTGATTGA GACTTGAGGC TGGCACTGGA  
 GCAGGCGTTC CCACCTGTCC CGTGAGGCAA AGGTGCTGGG GAGTGACCAA GTGCATCAGG GGGTGCAGAT GCGCTATTCT  
 GGCTCTTTCA CGCTCAGCCA TCTTAGCATA NGTGAATATA CCATGAGCTG TTTCTCAGCT TGTTTTATTT TCCTGGNGAG  
 ATAGATGTCA CTGGAATGNN CTTINTCCAA GTGAAAGGCC ATCTTGTGCT ATGAC

SEQ ID NO:1777: (Length of Sequence = 327 Nucleotides)

GATAAGGGAG GAAAGGCAGG AGGAGATGAG GGCAGCCCCA CTGATGACAC CTTGGGCGAG GCCTCAGAG TGACGGCATC  
 AGCCGGAAC TCCAGGCTGC TCATGGTCAC TGGCGTGTCT GAAGTGTCTC TCACCTTNT TTTGGTCTT GATCTTGAGT

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CCAATGTCCA CTCTCTTCTC AAAGAAGTTC ACCAGCAGCG ACTCGTCAG GATGGAGGCC AGGTTCTGCT CAAAGGAGAT  
GCACCACTOG GTGTGACCGG TGCCGCGGAT GCGCGCTGTG GGGCTGCAGG CCINCCCGCC CACCAGCACC GTGTGCTCTG  
CAAGGTCTTC ACATTGCAGG GAGCCCGTNC TGACCACCGA GTAGGAGGAC ATGGACATGT CGTCTTT

SEQ ID NO:1778: (Length of Sequence = 297 Nucleotides)

CCCCCACT AGAAGAATAC AATTAAAAA AGAGGCAGTA CACATGGTTA ATAAACAGAT GAAAAATTA AAATTCACCT  
GTACTATAAG ACAGGCAGAT TAAATTATTT TTACCTATCA AATTAACCAG AACAAAGGCA TGCACTTTAG TGAGGATGAG  
GAACATACAG ATTCACTGGT GAAAGTAAAT GTACACACAA CCTTTCAAGT TGATAGTTTG GCAGAAGTTG CTAAAAACAT  
TTAAGCTTT CATACTTTTG ATAAGGCTTT TTATTTTAGA AAACATATAA ATAAAAA

SEQ ID NO:1779: (Length of Sequence = 353 Nucleotides)

CAGAAGTAAA AGATTTTWTAT TGTCTATAG ACACCTCTGA AAAGAGATCT AATTGAGAAA ATATACAAAG CATTTAAGAG  
TTTCATCCCC AGAGACTGAC TGAAGGCGTT ACAGCCCTCC TCTCCAAGGC TCAGGGCTGA GAACGGTTAG CATATCGAWT  
GATCAGTAAA AACATGCAAA AGTGAGAAGG AAAGGGAAAA AGGTGCATTC CCTAAGCTG AGGGGGATGG AATTTTCAGAA  
CAGAGGAGGC AGGGTGGACA AGTACCAGGT GGCTCTCCCT TTCCCTCTGT GTTATCTTTC AAAACAGTTC CCAAGCTTNG  
NGGAAAGCAA TGAGCTCCAC CCTAYTCAGC AGA

SEQ ID NO:1780: (Length of Sequence = 428 Nucleotides)

CGGCTTCCCC GGAGCAGCCG ACAGGGCCAC AGGAGAATGG TATGCTGCTC GGCATGGAGT GAAGACCACC CCGTGTGCAA  
TCTGTTCACC TGTGGGTTTG ACCGGCAAGC CATTTGGTGG AACATCAACA TCCCTGCATT GCTACAAGAA AAATAAGGAC  
ACCGCAGCC CTTAGTTTCA CTGTTTGCCA GCACAGACCT TTGATGGGTG CAGGCTTTTC TGCGTATTAA TCAGCCATTT  
TTGTGAGAGT TTGACCTTGG AAAGGGTGCT TTGTATATGT TCTTTTACA TAGTGCCAG CTTGCATGAA ATGTACAGAG  
AAATGTGTGG TCGTATTTTT TACTTTTGTG TTGTATATGT ATGGATAATT NGGGTCCCTT GGGCAGTAGA GGCAAAGCTC  
ACCTCCCATG TAGCACATGA AAATGCTT

SEQ ID NO:1781: (Length of Sequence = 459 Nucleotides)

ACCTCAGATT GTGAAGGGCT CTGTAGGCTA TGTTAAGGAC ACTAGAAATC TATTGAAAGG TTITAAGCAG AGAATTGACT  
TGCTCATATT TTTNCTTCAA AAAGCTCAAT AGCTACAAAA CGGTCAATAG ATGGTAGCTT TGTGGGGCTG GGGTGAATGC  
AATGATATTG CAAAACAAGA TATAGGGAGA CAAGAACTTT TAATAACCTA AACCAGTGGT TCTCAAACCT TCCATGCATC  
AGAATCACCT GGATGACTTG CGAAAACACA AATAATCAGA CTTAATCCCT ACATTTTCTG ATTTAGCAGG TATAGAATGA  
GGTTAAGAA TTTCTAACAA GTTCCAGAT GCGTAAGGT GTCTCTCAGG GTTTTACTT GAGCAACTGG GTGGATCCNG  
TGGATCTTAT GTCCCTNCGA GTAAGGGGTC AGGTACAGCA TTCTCCGGTC AGATTGTTT

SEQ ID NO:1781: (Length of Sequence = 420 Nucleotides)

GAAAGCACAG GAGCCTGCTT CCAAAGAGGG ACTGTCCCGT AATTNAGAGA TGCTCCAAGG CTGACCATCC TCCTTCTCCT  
GCTGCACACC CAGCAGCCAT CTATGGCTGG APTTGGAGAA TTTCTGGTCA AACCGGTGAG TATGAGGAGA GCAGGGCAGT  
TGGGAGAGAA GGTCCCAGCC CAATTCTGCC CAGAGAAGCT CCAAAAGAG AGGGAAGTGT CCTGATGAAG AGCCCATGAA  
AGGGGTGAGA CCCAGGAGGC TGTGGAGATT GCTGCGGGCT CCTCTGGTCA GTAAGGAACC CTGACAAGAT CCCTAGGATG  
GGGTCCCTT AGTCTCACTG AAGTTCTTGT AACTTNGGA TGGGCGCAGC TCANCTCCT CTGATACCGG AGCTACAMAT  
CTGGCTTCCC AMTTCTAGAG

SEQ ID NO:1783: (Length of Sequence = 427 Nucleotides)

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AGAGCTTAGC ATGCTGTGG TTCATGTTT TATGTGTTA TTTCACATG ACTTTTGCCG TGAGCTTTGA GGGAGACAAC  
 ACCATCACAT ATGTGTAAAT TGTAAGAA TTGGGAGAGA ATAGCTTTGG GAGATCATTT TCTTACTGGC CATGATGAAG  
 AAAGCTGTAT CGTAGGAAAA TTACTAGGTA ATTTTACTCA CTGATAAAG TTAATTTGCA AGGTATCAIT CGATTGGTAG  
 AGTTACCAA ATGAGAGTTA AAGAAACAGA AATATGGTTT CAGTTTATGG TGCATTCTTA TCTTTTTCAC TGAGTCTATT  
 TCTGTCTGGT TGCTTCACCT AGTACTCCAA CCAGACAAGA GGAAGACAAC TATGCTAGTG TTTTAGGAAA TGGGACAGAA  
 TGGGGTGATT TAAGTAGGAG CCNGGGT

SEQ ID NO:1784: (Length of Sequence = 428 Nucleotides)

ATGGGATACT AATGCAAGCA TTCAGTGAAA AAAGTAGATT ACCAACTAT ACGATCCTCA TTTATTTTAA AAAGTGATAT  
 CCCCCAGAAA AAAATAAGAA AGATAAAGA TGTTGGTAAA ATAACATAAG AATAAAAAATA TAGGGGAAAA GGTAGCCAAAG  
 GGATAGATAT TGATATTCAT TTTCTTTTAA CAACTTTAAT AAGTTGTAAT TTGTGTGCAA CAGATTGCAT ATATTTGANG  
 TATATAACTT GACTAATTTT GACAAATATA TACACCCATG AAACCTACCAG TTATAATTTT AAACATTTTC ATGGCCCTCC  
 AAAGTTTCTT TGTGTCTTT TGCAATACAC GCAAACACAC ACACCCACA CACAGTATGT AGGGCAACCA TTGATCTGCC  
 TTCGTTACA ATAGGGTAGG TTTGCATC

SEQ ID NO:1785: (Length of Sequence = 414 Nucleotides)

GTAAACAGAT TACATTGAA CACCTAAATA AGTATTGTT TCATAATCAT TACATGCTTG TTTATGATTT ACAAGATTT  
 GGTAGAGAAA AGTACAGTCC TTAAGGCATA TATATGCCAA TGCAATAAAC TACTCAGCTT TTGTGCCAGC TCAGGTGTTT  
 ATAGGAACAG GAATGTGGAA TACCAGCTTT TACTTTAAT TATACTTTTA TGCTGAATTT TTCTTCAGT TAAACCTTTA  
 ATTACACTAG TATGTAAAGT AGTACTGAG AAAAATAAGT TTTTGATTTT CCTTCTGTG GATCTGTAAAC ATTTTAAAT  
 GGAGCTATTT AACACATGAC ATGCTAATGT TACTTAATGG GTCTCTGCAT TTAAATTTTA NGAAACACAA ACCTGGGTCA  
 CAAAACATCT TCAG

SEQ ID NO:1786: (Length of Sequence = 397 Nucleotides)

GTATTCCAA CAAAATTTT CTAAGATTGA AATGCAGAAA CTTACAGAAT TGAGTAAAA GACAAAAACG TAAATACTAA  
 ATATTGAAA GATGCAAGTN CTCCCCAAT AACTCATAG ATTTAATAAA ATTCAAATTT AAAGGCAATT AATTAGGGAT  
 GAGGCAAGAA TCTGGGAAGA AAATTAATCT GAAGTTGTG TGGAAAAATC AATGGGTGAA ACGAAATAT TTAGGATAA  
 GATTAATGAG AAGTAAATTT ATTTCAATTA TAAANGTAAA ATGATAAAT AGTTAGACCT ATATGGTACT GATGCCAGN  
 ATGTTATACA AAGCTACGTC AAGGCTTGAG GATAATTTIN TTGAAGATAT TGTGGGTAT CTCAITGGCT ATAAAG

SEQ ID NO:1787: (Length of Sequence = 408 Nucleotides)

TCCACAAT GACAATATAT ATGCATGTGT TTAAACCAA TCCAGAAAGC TTAAACAATA GAGCTGCATA ATAGTATTTA  
 TTAAAGAATC ACAACTGTAA ACATGAGAAT AACTTAAGGN TTCTAGTTTA GTTTTGTGTA ATTGCAAATT ATATTTTNC  
 TGTGATATA TTAGAATAAT TTTTAAATGT CATCTGAAA TAGAAATATG TATTTTAAGC ACTCACGCA AGGTAAATGC  
 ACAGCTTTTA AATGTGTGTG TTGCTAATTT TTTCCATAAG ANTGTGAAAC ATTGAACGTA ACAAATTACC TATAATGGAT  
 TTGGGTTAAT GACTTATGAG CAAAGCTGGT TTGGCCAGAC AGTATACCA ANCTTTTATA TAATATCCAG ANGGCTATCA  
 CACTGTG

SEQ ID NO:1788: (Length of Sequence = 391 Nucleotides)

CACTTGGAA CAACTTTTA TTTGAATGC TGGTCTGATC AGTCCACGEC CAGGGTAGG TGGTAAATG AAATAGCTG  
 AAGGAGGGAA GGAGAGGGGA CCAGCAGTCC GCAAGCAGGA GGAAAGGAAA GGGTTGGGGA CAGGAGGAGG CAAGGCTGAG  
 GAAGGACCCA GCCAGCTGGG TGTCTGCCCC GGCTAGAGAA CGAACCACCC CCACCCACCA GGCTACCTC CATCTGTGGC

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TTCAGTGCAG AAGTCAGTCC AGGTGGGTTC AGGCCCATGC CACCTTCTCT GGCTGCACA GTCCACCCC AGGCAAGGGG  
TTCTTTCCAG AAAGGCTAAA TGCTCTGTCC TAANCCTNGG AAGTGTCCCT TTCAACTAAA CCCCTGGCCT T

SEQ ID NO:1789: (Length of Sequence = 312 Nucleotides)

CAGGTGAAG TGAGCTGTG TGGGAAATGA GTCTAGTGT AGGAGGCTG GCTGCTATAA TGATATTTAT CTCACAGTTT  
ATATTTCAAT CATTATATAT ATTTTITTA AAGGTTTCTT TATCAGCTAC TAAACATCTC AGCAATTTGG TGTGCATAGC  
TCTAGATTAA GCAACAAAGA ATGTACTGA TAACAAACCA CAGGGGAAAT GGTGGTTAGT AAGAGTCAGC CTTATAAAAT  
TTACATCCAC ACTGTTTCAC AGCAAGATTG CTCTCTCCA AACGTAGCCA TCAAAAGCAG CAAACAAACC CT

SEQ ID NO:1790: (Length of Sequence = 281 Nucleotides)

TGTTTCCYTC ATTAGCTGTA GACTATCCCC TCTCTCCCA CCACAWTGT TCTWTGATGA KTTACAAACA GAAAGGAAAT  
CACATTTTCA TACTAAAAAC AAAATGWTC GAGCCTTGAT TTYTCCACTA GAWACTACAC GTACAGTTAA GAGTCCACAT  
GCAACACCTT AAWTCACAGA CTGAGACCTC ACATTYTGAC CTGGAGNTC CTCCCCTTCC CCAGCCTTGG GCTAGCTTTG  
GCCTAGGCTC AKGTAATACT GACACCACA GCGCTGCTC T

SEQ ID NO:1791: (Length of Sequence = 261 Nucleotides)

AGGCAAAGCA GAAAGGTGTG TTTGCCAGAC CAGCATGGGC AGCTCAGAGG GAGCAAAGCA TCCACCAGAA GAGGCTCTCC  
ATTTTITGT AGGGCCTGAC AGTTGAGATT TGAGGCTGAG TTAACAWTGG GACCACTGAA CTTTITTTCCA ATGGAAAAYT  
CACGCCCCAG TCCACAGGA ACTTTGCGGC ATACCAAACA ACAWTGAGGA AGGAAGGGCC GGTGGCTCT ACCAAACAKT  
TCAGGTCCAC TGGGTGAWTG A

SEQ ID NO:1792: (Length of Sequence = 324 Nucleotides)

CTCCATCTTT ATOGGCTGTA TAAACATCTC TGGTCTGTAC ATACATTTC TACATGTTAG GGTGGGAAGC GAGGGCCAAA  
GGGAGGCCCA GCAGCACAAC AGCTCACCCG CTTTCCCTAC AGCCCTACCC GCTCTGTGCA AACCAAGGCC AACAGCTCCT  
GCTGCCTCTT CCTCCCTGGA AAAGTCACTG TTATGGGGAG GGGGCCAGG GTTGAAGGAT TAGAAGGAGA TAGAGGGCTT  
GGTGGGGAGG CCACATNTAA GTCCTAGATT CAAACACTGA AGCGAAACAG GCAACTGGCA CAAGCAGCAA GCTTAGGCAT  
GGGC

SEQ ID NO:1793: (Length of Sequence = 386 Nucleotides)

ACTCTTGGGG ACCCAAAGAT GTCAGGTCCC CATACTCTGA GGAATCAGGA CACAGCCCAG TGCTTGACAC CACAGAGTGA  
GGCAGCCCTT CGGGTGAGGG CCTGGGCCTC GAGGGATGGC AGCCACCACT GCCTAGGCAA ACGCACCTGG GGCTGAACCT  
GGGCCCCGGC ACTTINAGGA CGCCAGCACC AGTGGGCACT CGGAAGTGCC AGTTCTGGCC CAAATTTGGT GACCTGGGTC  
AGAAGGACCT TTCAGAATGA NTGTTCCTG TCAGCAGATA CCGTCAAGAC ACGGCTGGCT CTGAGAGGGG CTGGGTGCCC  
GTTTTGCCTG TATTCTCTG GGGGCCAGCA CGTCTCAGAG GGTGTCCCTG TGGGTCCCCG GGTGCA

SEQ ID NO:1794: (Length of Sequence = 308 Nucleotides)

GGATGCTCTT TAAACATGC AAATTGGGCC GGGCAGAGTG GCTCATGCCT GTAATCCAG CACTTTGGGA GGCCGAAGTG  
GGTGGGTAC CTGAGGTGAG GAGTTCAAGA CCAGCCTGCG CAGCATGGTG AAACCTCATC TCTGCTGAAA ATACAAAAAT  
TGGCCAGGCG TGGTGGCATG TCCTGTAAAT TCCAGCTACT CGGAGGTTG AGGCGGGAGA GTTGTMTGAA CCGCGAGGT  
GGAGGTGCA GTGAGCCGAG ATTGCACCAT TGCACTCCAG CCTGGGGTGA CAGAGCCAGA CTCTGCT

SEQ ID NO:1795: (Length of Sequence = 418 Nucleotides)



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GAAACGCTAA GGTTTTGACA GCGTTACAGT GAATTCTCOG GCTGTAGAGA TTGGAGGAAG TCGGGAGAAA TTCGTCTCTA  
 AGTTGTAAGG TGGAACAGCA TTCATTTTCT TACTGCCAAT GGAGGTTTTT CATGAATTGA CTAACCTCAGT AAAAAGATTG  
 GGCTTTTTTT TTTTAATCTT AAAGGATCAC GCTTTAAACC TCTGTAACAA AGTAATTATT TGTACCACTC TCTACCCAC  
 CCTCCAACAA AATAACCTAT CGGNTCTCAG AAAATAATAA CCTTTTGCTT GCCTTTGAAA TAGTTATCTT TTTTAGTATG  
 ACAGTGTTC AAAATTCTTT TCTTAGACTT GTAGCAGAAC ATAGCTATGA TGATCTGAAT TTTTCTCTTT CAGCTGTGTC  
 TAAGACGAGG GGGACTCC

SEQ ID NO:1796: (Length of Sequence = 416 Nucleotides)

CTTTATTACA TATGCAACCT TGCCATGCCT GCCAGTTAAC TCCCTCCCG CCAATGTTAT CCTCATGATA TCAGCTCCCT  
 CTTGGGGCCA CTGAGCTGCC CCCCCTTCTT TCTGGGCTGG AGTAGTGGTG CCCCTCAAGC AGGCAATGGG CAGGGGGAGA  
 TCCACAATTA ATGTGCGCAG TTCTCTTAAA AGTATTAAAC CTTAAATAAG CACTCTTGGG GAGTTGCAA GGATATTGAG  
 GATGGGATGC AGTGGGAGGC TACCCCTCAT CCAAGGTACA GGCTGGAATG AGCTACAGCT GGGTCTATCG TGGGCTCAG  
 AAGGTGAAGA GGGACCTAT TCTGGGCTT AGTGTGGTG GGCATATCC TCCCAAACCT TGTTCTGTGG GCGATGTTCT  
 TCACATCTAG GAGAGC

SEQ ID NO:1797: (Length of Sequence = 298 Nucleotides)

AGGAGGGAAA CCAGAATCAA ACTACTACTT CTAGATGAAC ACAGGCTCTT GAGAGTCCCC AAGAGAGGAG GCTGTGATC  
 CAATCTGAC TCAGACTACC TACCTGGCTT CCTGGCCCTA GGAGGTAATA ATGATAGTNT CAGGGGGTCC ATGTAGCAAT  
 CCAAGCAATT CCTGAGGTGA GAGCAAGCAA AGAGGATAGG ATGAAGGAA GGCAGGCAA GAATGTGCTC CTAGTAAGAA  
 GCAACTCTNT TCCACTCACT TCCTTTTGTCT CTNTGGCAGG CAAGTCAACT GGGTTCTC

SEQ ID NO:1798: (Length of Sequence = 245 Nucleotides)

CTGGTCCATT TTTACAACAN ATACATCCAA AACACTATAT AATANNITTT TTTACAACAT TTCCAAATGA GAAGATTGCT  
 TTNNCCCCCA CTACTGCTAT TCACACACAG TACTTCCAG GCACAATACA TTAGGAGATC TAAANTGCT CACCCTGTAC  
 TCTAGGCTGC TTAGGAAATG TGAAACTAG NAACATTAT AATGGCATT GCTCCTTTCA ATACAAGGCA ACATTTTAGN  
 AACCT

SEQ ID NO:1799: (Length of Sequence = 312 Nucleotides)

GAAATGTTAG GCTAGTTAGA AGGACACGGC AATAGCCTTG AGATTYTCAA CCAGGGTAGT GTATTAGAWG TAAAAAGGAG  
 AGGAAAGATT TGAGAGTTAT CTCAGAAACA GAACCATCTA ATTTTTTTGG ACTGATTGA CTGCTCTTTC ACTCATTTTT  
 TTATTCACTC AACAACTATT TTGAKTGTNT TTGGATGGT CAGACATTGC GCTAAGTGAA AAATAGGAAG GTAAGAAAAA  
 GAAGACTCTG AAGATGAATT CCTCCCAA AACTGAGCTA CTAGCTATTA CTCAGTGGGG CTGAAGTGAC AC

SEQ ID NO:1800: (Length of Sequence = 309 Nucleotides)

GGCATGTGAC ACTAGGCCAC AAGCGATAAG CACAGGCACC TGACTTTTAA GTTTTTGTTT GTTGTGTGTT TCCCAAAGTG  
 CTGATAACAA TAACAACAAC AATAGGATTC CAACCAGNG CCTCAAGTGA CAGCCAGNA GAGACCTGAA GGTGCGGCC  
 ACCACAATGC CAATCGTTT CTAAGGAAG CTGAAAAATG GGAAGTGTCT TTGCCACTT CGTTGTGTGA AAAGGGGACA  
 TTTGTCNAAA CTTCCCAACC GAGTTCTAGA AGTCTCTGAC AAGGAGCAG CATCCAGCT TGACCAGC

SEQ ID NO:1801: (Length of Sequence = 166 Nucleotides)

CAAAANTTAC TCTGCAAAT TAATATATGA TTTACCTGCT GTTTCATAA GATTTCAAA TAGACAACT CGGTATGCTT  
NGGATTTGCT TTACATTCTA AGTGGATTG GAGGTCAGG CAGGCGCCAA GGAGTNAGCC GAAGTTTCAT CANGCGGAGA  
TGTGG

SEQ ID NO:1802: (Length of Sequence = 281 Nucleotides)

GGTGGATGTC TTGGGGCGCA GGATGGAGCC CAGACCCAGT GGTACAGTG TGGAGCTCTC TCCCTGTCCC CTGACTCTGG  
CCAAGGAAGT GAATGCAAAG CAGCAGGGAG GAGGCAGGT GGGGACGGCC CTCTGAGCTC TCCCGATGG CTGGCGTGAG  
GTGCTCTAA GACTTCTNGG CAGCCCTGCC TTCCTACTC AGTCTTCCG ATCTTNTG CACCTTCTG TGTGGGCCAG  
NCTCCGCCA GGTACTCAGA GGCGCTCAG AGGCAGGT T

SEQ ID NO:1803: (Length of Sequence = 429 Nucleotides)

TTACAGTIA TAGTTGGGA CATTACAAC CCTTCTCAA TAATTGATAG ACTACTAAAT AAAAAACCAT GAAGGATATA  
CAAGAACTGT ACAACACTGG CCGGTGTGG TGNCTCATGC CTGTAATCCC AGCACTTTGG GAGGCTGAGG CCGGTGNTC  
ACTTGAGGTC AGGAGTTCGA GACCAGCCTA GCCAACATGG CGAAACCACA TCTCTACTAA AAATACAAAA AATTAGGCT  
GGCTGTGGIT GGCCTAATGC CTGTAATCCC AGCACTTTGG GAGGCCAAGG TGGGCATATC ACCTGAGGTC AGGAGTTGA  
GACCAGCTG AAAACATGG TGGAAACCA TCTCTACTAA AAATACAAAA ATTAGCTGGG TGTTGTGCGT CTGAAAAAT  
TAGGTAACT CGTCTCAA AAATAATA

SEQ ID NO:1804: (Length of Sequence = 278 Nucleotides)

GACCTGAAGC TCAAGTCTC TCTCCTTACA CAACCAGCGN CAACAGGGCC AAGCTACTGG CTAAGAACAG ACAAACTTTC  
CTGCTTCAGA CCACAAAGCT GACCGTNTT GCCAGACGCA TGTGCAGGNN CCTNTTACAG CCAAGGAGGG CCGCCCGAGC  
GNCITATGCT CCTATCAATG CCAATGNCAT CAAAGCAGAG TGCTCCATTC GNCITCCTAA GNGCNCAG ACTCCATTNA  
AGATTACCC TCTGGTGCG GCTENCCCTG GGAATAT

SEQ ID NO:1805: (Length of Sequence = 349 Nucleotides)

GCATCCATGG CCGAGGGCGG CAGCAGACG GCGGGCAGG GCGGGCTCC GCAGGTGTA ATCTGAAGGA GTGGCTGAGG  
GAGCAATTT NIGATCATCC GCTGGAGCAC TGTGAGGACA CGAGGCTCCA TGATGCAGCT TAGCTCGGG ACCTCCAGAC  
CCTCAGGAGC CTATTGCAAG AGGAGAGCTA CCGGAGCGC ATCAACGAGA AGTCTGTCTG GTGCTGTGGC TGGCTCCCT  
GCACACCGTT NCGAATCGCG GCCACTGCAG GCCATGGGAG CTGTTGGAC TTCCTCATCC GGAAGGGGGC CGAGGTGGAT  
CTNGTGGAG TAAAGGACA GACGGCCCT

SEQ ID NO:1806: (Length of Sequence = 403 Nucleotides)

GTGCACTGTG GCCAGATCTT TTCTAGTAAA ATGTGTGTTA CTGATGGGCA GACAGCTCTC ATTCAAGCAG TGACAGATGT  
AAGCNCCTCC CATTTTGTG GCCCATTTGT ATTCAGCGTG TGGCTTCCAA GTTGCCTGGG ATCATCTCCA CCCAGACTAA  
GGAAGAGGAA AGAGCTTGGA CAACTGCACT TGGCTGGTTT TNATGGATCA GGCAAGGAAT TGGCTCCAAC ACATTAGCTC  
ACATTCCATT GGTAGAACT GGGTTTCTCA ACTATTAGTA CAGGTGAGT GTAGGGTTT GGCACCATGG GCATTGAGC  
TGGCCAAAGG CTAATCAGAG TTAGAACAAA GCCACAAAGC CTGTGAATGG TGTTTATGT TGTGAGGAGC TGCTTGTGC  
ATT

SEQ ID NO:1807: (Length of Sequence = 426 Nucleotides)

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GTCTCTAGCT TCACTCTGGC ACCACTGTGA GCACCGGGAA ACCTACCAGA AGTTGCTGGA GGACATCGCT GTCTGCACC  
 GCGTGGCTGC CCGCCTCTCC AGCCGAGCTG AGGTGGTAGG CGCGTCCGC CAGGAAAAGC GCATGTCGAA AGCAACGGAA  
 GTGATGATGC AGTATGTGGA GAATCTAAG AGGACGTATG AGAAGGACCA TGCGGAGTCA TGGAGTTTAA AAAGCTTGCA  
 AATCAGAAAT CAAGCCGAG CTGTGGCCCC TCTGATGGG TCCCTCGCAC GGCACGGTCC ATGTCCCTCA CGCTGGGAAA  
 GAATATGCCT CGCCGGAGGG TCAGGTTGC TGTGGTTCT AAGTTTAAAT CCCTGAATCT GCCTGGGCAA ACTNCCAGCT  
 CATCATCCAT TCCTCCTTAC CAGCTT

SEQ ID NO:1808: (Length of Sequence = 431 Nucleotides)

GGTACTTTTC CATTAGATT CAAATGGAGC TAAATTAAG AGTTTATGA GCTGTTAAGA ATGAGGTAGT TTCTCTAGG  
 ACCCCCCAAA GACAGTGCAA GTAATGACCG TTGGNTCTC ATTGTCGAT CTTTGATAGT ATGINCTGGA GTCTACTCCC  
 CAGGAGCCAG GACAGGCGTG AAGATGGAGT CCTTGTGCA GCTGGAGCCT TGCTAGCTG GTGATCACAC AGCCTGGNCT  
 GTACCTGCAC CCCACTGGAT GGTGGTACAT GGTGGCAGG ACAGGACCAC ACCAGTTAA GGCCAGACCA GGCTGAGTGT  
 GACCCCTGAG GTAAACACTT CACTAAGCTG TGTCTGTTC ATGCCCCCTG CTCAGTGAAA GGTGAGTCCC GAGACCAGTT  
 GGTACCTCT CTTATGCGAA CCAGAGACAT T

SEQ ID NO:1809: (Length of Sequence = 401 Nucleotides)

CGTGAGGCCT TGAGCACAAG TGCAAGCGG ACATCCTGCT CGCCGGCTC CGGAGCTCG AGGACCAGAC CTGGAAGCGG  
 ATCCGGCCCC GGCCACTAA GACCAGCTTC GTGGCTCCT ACTACCTGTG CAAAGGAGGA GATGACGTG TGGACCGAGG  
 AGCGAAGGG CACCTCAAC CGGACCTGC TCTTCGACC GCTGGGGGT GTTAAGCGG GCAGCTCACC ATGCCAAGC  
 TCCTGAAGGA GCACAGGGC ATCTTCACCT TCCTCTCGA GATCTGCTT GACAGTAAAC CCCGATCAT CAGCAAAGGC  
 ACCAAGGACT CTCGTCTGT NTGCTCAAC CTGGGCTGCC AAGAACAGCT TMTACAACA ACAAGTGCCT GGTGCACATC  
 G

SEQ ID NO:1810: (Length of Sequence = 233 Nucleotides)

AAGTGCTATA TTCATTGTAT TATAGAGAAG GTTGGGGAGC ACAGAAGAGG ATCAACCCAG CTTTGAAGG ATTAGAGAAA  
 GCTTCCAGAG GGGTGGACAT TTGAGTAGC AAGAAAGCAC AAGGGAAGG GCATTTAGAC AGAGGAGACA ATTTGTCTTG  
 ACCCAGAAGC ATTGGGGTAT GCTATGCATG GATAGNCAA GAATTTTTC AAAAGGGGG CCAGCAAGGC ATT

SEQ ID NO:1811: (Length of Sequence = 423 Nucleotides)

CAAAGAAAGA GTTGAATAT GTACATTGAA AAAAGGAAAG ACATTTTTC ATACCAACCT TTCCCTAGTT CGCAGTTTCT  
 GAATAGTAGA AACAAACAC ATTTTAAAT CTTCTATCA ATTAAATTA GGACGAAGTA ACACAACCTT TATTAATTAAC  
 CACTGAAGTT GTCTTAAAG ACAAACTTA AATTTTAAA TGGGTGTAC CATATTINAT GAGTGGACTG ACTCCAAGGT  
 TGCTTGCTC CAAGNTGGG CATGTGACA TTGCGTGAT GCCAGAGA AAGTTAATGG CAATGATGTC CAGTCAGAGG  
 GCAGACATGC TACACATCAC AATGATGAGA GTGCGGGAT TCTGCCCTCT TCAACTTCCA AGTAGNAAT TATTATTTTC  
 CATTCAAAC AACTGGGAGT GAG

SEQ ID NO:1812: (Length of Sequence = 394 Nucleotides)

GACAGCCTG GCAACTTAGT GAGACTCTGT TTCAGGAAAA AAAAAAAA GTGTATTGG CTGTTCTGAA GCAGGCCATC  
 ATCACCTTC ACCTCACCA CAGGTGGCTC TGGGGGCTG GTCCATGGGC GGTGTGGG TTAGGATGGA GTCCTAGCTG  
 TGACCTGTGC CCAGGAGGGC GTGATCCAG TGAAGCCCA GGTCTCAGG AGTACCTGT AGCGAGGCTTCCAGCTTCG  
 CCTGGGGCTT CAAGAACCTC CCATCTATCC CCATTCTGA GACAGGAGTT ACAGTCCCTT TTGNCCTINA CATCCAATA

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AGAGACTGAT ACCACTGGAG TGGCTGGCTT TTAATTCCCC TGGGCCAGAC CTGCAGCCTT GCCTTAATCC TTAA

SEQ ID NO:1813: (Length of Sequence = 344 Nucleotides)

CATCAGCGAC AGGCTCCCT CCCAGAAGCC CATCAGGACA GGAGAAAAGG CAGCAAGAGA GGTGGGGTGG TCCTGGCAGC  
TGGGCCACCA GTNTCTGAA TGAAGAGTGA GTCCCGGTC AGGAGTCCAC ATCAGGTGTG GGCTGCTTCC AATCTGTAGG  
TTCTCCTGGA GATTNTCACA ATCTGCCAGC TCTCTGGGAA TCACAGAACCC ATCATGTCCC CTTAGGATGG CAGAAGATGT  
GGCAGAGCCT CAATCTCCAA CACTGAAACA CTNAGAGAGC TTGATACGTT CCTTAGGCAG GGCAGAAACA TCACAGCACT  
TCACGNTAGG AACCACGAAA GAGT

SEQ ID NO:1814: (Length of Sequence = 442 Nucleotides)

GACACAGCAG GCCCCTGCCC CTGAAGGAGA CTGCAITGGA ATTTTITGCCA GGTGGCCCTG ACACATAGGA ATGCCCACT  
ACTGTGACTA CCCTCTGAGA TAAAAGCTG TCCTACTGAT TTTAGAAGGC CAAAATTAGA GGTTCATTTG GAGGTCATGC  
CAGTGGACAT ATAACAGTTT GAAATGCTTG TCCCCGGTG CCGTAAAGAA ATAGTACTTG AACTTAAATT TATTCAGCAA  
GGCATTITTT ATTTTCTGCA GAAAGGTAC ACTTGGCAGC AGTTTTNCCA CGAGAGTACC CCGAACAAAG GAGACAGGGT  
CATTATTAAC CTGACGCGTC CACCTTCTG CTGTGTCGGG TTTCCATGG CTGGAACAGG ACCTCACATT CTGTATTTGT  
CCCATTGGC TAGCAACTTA GGACTTATTA AAAGAGGCAA AG

SEQ ID NO:1815: (Length of Sequence = 299 Nucleotides)

GCAGAGAATC CCTTGAACCT GGNAGGCGGA GGTTCAGTG AGCCGAGATC ACGCCACTGG ACTCCAGCCT GGACAACAAG  
AAGGAACTC CATCTCAAAA AAAATTGAAA AAAAATTCAN GANATACAGA ATGCAAAANG GGACCAAAAA AGTACCAAAA  
ATTTCAAAAT TTTGTAAAC TGTACCAAT CTGNTACGA AGCGTTATTT TTGCCACAG GGCACCTCCC TGGAAGNCG  
TTACAATAGC TNAGGCTTCC TCTTCAGATA GANTTAGAGT GGCAGTAGGA TAGGCTCTT

SEQ ID NO:1816: (Length of Sequence = 286 Nucleotides)

ACCCGGGTC CCAGGTATGC TCCCACCTCC ACCTGCCCA CTCACCACCT CTGCTAGTTC CAGACACCTC CAGCCCCACC  
TGGTCTCTC CCATCGCCCA CAAAAGGGG GGCAAGAGG ACGAGCTTAG CTGAGCTGGG AGGAGCAGGG TGAGGGTGGG  
CGACCCAGGA TTCCCTCC CTTCCCAA TAAAGATGAG GGTACTAAAG TTGTCTTGGT TTTTATTTTA TTATTATTTT  
TTTCTTTTTC CAGTATACTA GCTTGTCTTT TAAGAAAGG GATATT

SEQ ID NO:1817: (Length of Sequence = 320 Nucleotides)

GAAAGGAAG CCAGGGTGG AGGAAGGATC AGCTAAATCT GAGGGAAGAA GAAGGAAGG AGAGGGACTA TTGCATAGCA  
GATGCAAATG AAGGGACTGT CTTATTATAC AGTTTTATCA TCTGTTAATA CTCATAATCT TGTTCTTTT TCACTTTTA  
TATAATTTTA TCTTTACATT AGTTAAATCA AAAATCTTAA AACACATTTT AAACGTGGTC ATAGGTTACT TTTATATATT  
ATTGAATTTA TAATAACAT GTTCTTTTNC TGGAACTGG GATGNNACN CGATGGTGT TCTTGAATAT AAGAGTGTCC

SEQ ID NO:1818: (Length of Sequence = 356 Nucleotides)

CCCAGGAGGC TGAGGCAGGA GAATCGCCTG AACCCGGAG GCAGAGGTG CAGTGAGCCG GGATTGTGCC ACTGCACTCC  
AGCCTGGTGA CAGAGCGAGA GTTCATCCAG ACACACACAT ATATATATAA TTNCCAACA GCCTTTACTA AACCCCTGA  
GGTCTCATGA CACAGTAGAA AATCATGATT TAGTAGAAG AGCATGGTGG TAGGAATCCA GTAGATCAGT AGATCTTGGT  
TAGAGTCCCA AATCTGCCAC TTTCAATCTG TATGGCCTCA GGCAAGTTAC TTAANCTTTC TGTCTCTCTG GTTCTTTAT  
AAAATGGGG ATAATAATAG TAACCTCTTC ATAGGG

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SEQ ID NO:1819: (Length of Sequence = 328 Nucleotides)

CCACTCCTGT AACCTGCTGG ATGACTCTGC ACTGCCCTTC TTCATCCTCA CCAGTGTCTT GGGTATCCTA GCTAGCAGCA  
 CTGTCTCTTT CATGCTTTIN AGACCTCTCT TCGCTGGCA GCTCTGCCCT GGCTGGCCTG TCCTGGCACA GCTGGCTGTG  
 GGCAGTCCCC TCCTCAGCAT TGTTGGTCCC GTTTTGGCCC CAGGGCTAGG TAGCACTCGC AGCTCTGCCC TGTTAGCCT  
 GGGCTACTGT GTCTGGTATG GCTCAGCCTT TGNCCAGGCT TTGCTGCTAA GGGTGCCATG CCTCCCTGGG NCACAGACTG  
 GGTGCAGG

SEQ ID NO:1820: (Length of Sequence = 359 Nucleotides)

CCACCATGCT CTGCACTCGC NCTGGTACCA GGCCCGGAC CTCATGCTCA TGAGCCACTT GCAGGACAAC ATTCAGCATG  
 CAGACCCGCC AGTGCAATC CTTTACAACC GCACCATGGT GCAGCTGGGC ATCTGTGCTT TCCGCCAAGG CCTGACCAAG  
 GACGCACACA ACGCCCTGCT GGACATCCAG TOGAGTGGCC GAGCCAAGGA GCTTTTNGGC CAGGGCCTGC TGCTGCGCAG  
 CTTGCAGGAG CGCAACCAGG AGCAGGAGAA GGTTGGAGCG CGCCGTCAAG TCCCTTCCA ACTGCACATC AACCTNGAGC  
 TGCTTGGAGT TTGTTTIANC TGGTGTCTGC CATGTTCTT

SEQ ID NO:1821: (Length of Sequence = 208 Nucleotides)

CCTGGGTCTG TGACCCAGAG TTCCAACACA AAGACACTTT GACTGGAAC GCTGGAGCCA TTCCAACATG AACAGCAAGA  
 ATAGAACCTG TGCTGGCTGG TCTAAGATCA AACCTCGNGA TGGTGGTTTG AAGINCTTCT TCAAAGAAAG CTTGAAAATG  
 AATCTCAGT TAGGCAAGNC AGATAAAAGC AGAGTTATTC TGGTGGCG

SEQ ID NO:1822: (Length of Sequence = 314 Nucleotides)

GGATGINTTG AGCCAGAGTT TAAGCCTGAC ACACAGGCTT TGTCTCTCAC TGAGCTGTCT CCAAGACTGG AACTACTTAG  
 TGACTGGCA AATTTTCTGC CCCCCACCCC TCATCAAAGC TGCTAGTTCA GATGTTGACA GTGTTTTCAT GAATGTTGGA  
 ATCTTACTAG TCCAGACTTA CTTAGGATGT TGTTGGGGAA GGCACCTGGG ATTTTCTGTG TCTTGCAATC ACAGAGGGAG  
 GCCATTTTCA ATTCAAGAGC ATTGATTTAG GGGATGTGA GGCAGGGATG CTACTGCGKA TTTCTCTCTT CAGG

SEQ ID NO:1823: (Length of Sequence = 344 Nucleotides)

AACAATTTTG TCTTTACTAC ATCTTAAAGA ATTAGAATTT GGGTTGGTGT AAGTGAATTA CTTCAGGGA ATCATGCTCT  
 ATTTCTACCA GCAGGTACATA CCCNAATGTC AACTATCTTA TTGTTAACCA TGAATGNTAT TCAGATCTAT TACTTTTCTG  
 GAAAAGTGGG ACATGTTACT TCCAACCATG GCGTGTACCC GTGAGTGTGA TCANCTTNT CCAAAACCAAC ATGGGTGCGA  
 GGAGCTAAGG GGTGGTACCC MAATGTTAGG GACAGTGTGA GGAAGGGCA AGGGAAGAAG AGTGACTNGA TGCTTTATGA  
 GRAACCCGTA AATGGCTTAA AAAA

SEQ ID NO:1824: (Length of Sequence = 340 Nucleotides)

GTGAGTGGCA GGTATCATGA ACCACATTTT GGACCTGGAG TTGCTAGGAC CTTTCTGCTC ATTACACAGA AAAATCCTCC  
 CTGAGAACAC AGCCATNGA GGNCAATGAG CAGAGGAAGA TAAGACAATA AACAGAGNCA CATAATTATG GCCAGCGTGG  
 GGGCTNACGG CTGTAATCCC AAAACTTTNG GAGGCCGAGG TGGGCAGATC ACCTAAGGTC AGGAGTTGCA GGCCAMCCTG  
 GGCAACATGG TGAACCCGT CTCTACTAAA AATACAAAAA TTAGCCSGGC GTGGTGGCAC GGGCTGTAG TCTAGCTAC  
 TCAGAGGGTT AGGCAGGAGA

SEQ ID NO:1825: (Length of Sequence = 357 Nucleotides)

AATTTGGTTG TGGCCAAATT CTCAGTCCAA TCACCCTGGC CCAGGGCCTG GCGTGGGAGG ATGTGGCAGG CTCGTCTCC  
 TTCTGGGGTT CCTGGTCTGG AGGAGTCTCC CCAACAGCGC CAAAGCTGGC TGTTTTCGCG CCAAGCCCC AGAACTTTGA

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ATGAGAGGCA AATCTACCTT GAATGCACCT CCTCCTAGG CTGGGTGAGG TCACGCAGAC ACAGAAGGGC AGGACAGAAC  
TCCCCATCTT CTGGGGGCCA ATTCGTCTGG ACACGTGCGG GTCANCTTCC TTTTAAAGT GCCAGTATCG GTGGGGCAGG  
AAGGACTCT CAGGGCTGAG CAGAGCCTTC TTCAGCG

SEQ ID NO:1826: (Length of Sequence = 207 Nucleotides)

CCGGCCCTT CAGTCCCCAG CCCCTGCCCC AACTCCGACT CTGCACCCA GCGCGGCTTC AGCCCCGATT CCGACTCCCA  
CCCCGGCACC AGCCCCGTCC CCAGCTGCAG CCCAGCCGG CAGCACAGGG ACTGGGGGGC CCGGGGTAGG AAGTGGGGGG  
GCGGGAGCG GGGGGGATCC GGCTCGACCT GGCCTTAGCC AGCAGCA

SEQ ID NO:1827: (Length of Sequence = 309 Nucleotides)

GTGTGCGCCT GTAGTCCAG CTACTCGCA GGCTGAGACA GGAGAATCGC TTGAACCTG GAGGCGGAGG TTGCATTGAA  
CCGAGATCGC ACCACTGTAC TCCAGCCTGG GTGACAGAGC GAGACTCCAT CTATAAAATA AAATAAAATA AAATAAAATA  
AAATAAATAA AATAAAATAA AATAAAATAA AATAAAATAA AATAAAATAA TAAATAAAA TAAATAAAA TAAATATAA  
AATAAAATAA AATAAAATAA GAACCACCAT ATGANCCAGC AATCTCATTA GTGAGTATAT ATCCGAGGG

SEQ ID NO:1828: (Length of Sequence = 382 Nucleotides)

ATCTCTGACC ACCCCCTCCT CCCCATCCCA CCTTTGGTA ACTCCCCGC CCAGNCACT GCCAGATAT ATTCTTCTCC  
TTGGCAAGA AGTTCGTGTC ATGCAGGTCA AATCTGAAAG GNCATTCTT TCTTTAATG AGTGTGAGG ATGGGGGATG  
TGGCTGATGA TATAAGGGC CCTCCAATCA GACTTTCTAA TCTAACTGAA AAGNTAATTA CAATGTTGAT GCTAAAAAG  
AAGTTCTGG CAAAATAGAA CTCTGAAGC ATCATAAATC AGATGACTAA TATTTGTGAT CCCNNTTAA ATTTTCATGT  
GAAGAAGAAT AGGGGATGTA ACTGAAGRAA TGNACTAAAA GTCTTCTAT GTATTGATAA CC

SEQ ID NO:1829: (Length of Sequence = 361 Nucleotides)

GGCGCGCCT CTGGAGCTGG ATGTCCAGGC TCGGGCGCT GCTGGGCTC GGGCTGCTG TTGGGGGCTC GCGCTGCCG  
CGGATCAAAA GCCAGACCAT CGCTGTGTC TNGGGACCA CCTGGTGGG ACCNCAGCG CTGAACCTCG GTGGCGCTG  
GGACTCAAAG GTCATGGCGA GCACGGTGGT GAAGTACCTN AGCCAGGAGG AGGCCAGGC CGTGGACCAG GAGCTATTTA  
ACGAATACCA GTTCAGCGTG GACCAACTTA TGGAACTKGC CGGGCTGAGC TTTGCTACAG CCATCGCCAA GGCATATCCC  
CCCACGTCCA TGTCCAGGAG CCCCCTACT GTCTGGTCA T

SEQ ID NO:1830: (Length of Sequence = 180 Nucleotides)

AAGAACGTTG GCTGCCTGCA GGAGGCGCTG CAGCTGGCCA CTCTCTGCG CCANCTGCGN CTGGGGGATG TAAAGAACTG  
AGTGGGGAAG GAGGAGGCTC CCACTGGATC CATCCGTCCA GCCAAGAGCT CTTCATCTGC TACAAGAACA TTTGAATCTT  
GGGACCTTTA AAGAGCCCTT

SEQ ID NO:1831: (Length of Sequence = 335 Nucleotides)

AGATCTTCTA TATTCGACT ACTGATTCAA ATGCTAATCC TGAAGGGCA TGGTGGCTCA CACCTGTAAT CCCAGCACTT  
TGGGAGGCTG AGGCTGGTGG NTCGCTGAG GTCCGGAGTT TGAGATCAGC CTGGCCAACA TGGTGAAACC CTGTCTCTAC  
TAAAAATACA AAAATTGCT GGGCGTGGT ACATGCGCT GAAATCCAG CTACTCGGGA GGCTGAGGCA GGACAATCAC  
TTGAACCGG GAGGCAGAGG TTTCAGTGAG TTATTCACC ATTCACCTCC AGCTGGGTG ACAGAGGCAATTCATTC  
CCCCACCAA AAGCG

SEQ ID NO:1832: (Length of Sequence = 337 Nucleotides)

GTATTGGAG ATGGGACCTT TGGAAATGCT TTGATTAGGA AGAAGGAGCT TTCATGAACG GGATTAGTGC CCTATATAAA  
GAGGACGCAG AGAGCTCTCT CACACCTTCC ACTGTCTGAG GNCACAGGGA GAAGGCCCTG TCTATGAACC AGGNAATGAT  
CCCCAACCAG AACACCTTGA TCTTGGACTN CCCAGATGCT CCANATCTNT GAGAAGCAAA TTTCTGTGCT TTATAAGCTA  
TCCAATGTAT GGAATTTTNG TACAGCAGCC CCAACAGACT AAGNTATTAA TAAAATAAAG ATGTAAGATC TCTGTTGAAA  
ATGCACAAAT AATATCT

SEQ ID NO:1833: (Length of Sequence = 244 Nucleotides)

TCTCTCATTG TAAGCACAAA TGTTCCTGTG TCTGGTTATT AAAATCGCTT TGGGTCTATA ACAGCCACTC TTGTCCCCC  
TTTTAATAGA AAATTGTGAT TCTAGCCTGG ATTCTCCCC ACTGGAGGTG GAGGGTGGGA AGAGAAGGGA GTCAGCTCTG  
ACAGCTTACA AACTGGGAAG TTCTGTGCAT CTCAGGGAT TCCAGAGTTG AAGATCTGGT TGTGGAAGC TGGGCGCCCA  
GTGC

SEQ ID NO:1834: (Length of Sequence = 322 Nucleotides)

TCCTGTACTA CACCTTTGCC AACATGGCCA TGTGAACCA CTTGCGCAGG CCCCCGTCCT GCAGTACCTG TACTACCTGG  
CCCAGATCGG CATCGCCATG TCTCCGCTCA GCAACAACAG CCTCTTCCTC AGCTATCACC GGAATCCGCT ACCGGAGTAC  
CTGTCCCGCG GCCTCATGGT CTCCCTGTCC ACTGATGATC CCTTGCAGTT CCACTTNACC AAGGAGCCGC TGATGGAGGA  
GTACAGCATT GCCACCCAGG TGTGGAAGCT TCAGCTCCTG CGATATGTGT GAGCTGGCCC GCAACAGNT GCTCATGAGC  
GG

SEQ ID NO:1835: (Length of Sequence = 178 Nucleotides)

ATGAAAGCAC AAAAGAAGTC TATCAAAATT ACAAAACTT AAAACCGAGT AAACAAACT TCAGAAAGAA TGAAAACAAT  
TGGAAATAA CTTCAAGAAA AAAATGTAAA ATGGAACAA TACAAGANCA ATTTGTGCC TCTGAAAAAC AGAGGTATAA  
GTCAGAATTT TTTGTNC

SEQ ID NO:1836: (Length of Sequence = 377 Nucleotides)

CGCCTGGNAC CACACCCAGC TAATTTTTGT ACTGTTAGCA GAAACAGGGT TTCATCACGT TGGCCAGGCT GGTCTCGAAC  
TCCTGACCTC AAGTCACCA CCTGCCCTGG CCTCCCAAAG TGCTGGGATT ACAGGCATGA GCCACTGTGC CCGGCCTTTA  
TGCTGAGTTT TAAGGGCTGT ATGAGACACC AGGTGGTGGG AGGGAGCTGT TTTGAGAGCA GGAATTTAG GATACTTAGG  
AAATTAGAAA ATTAGAGAAG TCATAGGATC TTGGAACATA GGGAGAACCT TAGAGTCTGT TGGAGCAGAA CCCAGCATTT  
GTATGTGGAG GAAACGGAGG GCCCAGAGAA GTGTGACTT ATNCCGGGGT CAATCTT

SEQ ID NO:1837: (Length of Sequence = 388 Nucleotides)

GGAGAGAACA AACCTCTTA CTGGCCTTGG GCCATCCCT CTTTCTCCA CACTGCTACT TTTGAGTTAT CTCATTTTGC  
TCCCAATAGT CAGCCTTGAC TTTCTGGGC TTACCTGGGC ATCAGGGACC CATGTGCAC ATTCAGTTGT CCGATTATG  
TCTGCCCTAG AGCGTCTCT AGGCAGCCA GTCTGGAACA GTCAGTCACC TAGGGTCTGT GAGCTCTGC AGTCTGCCAC  
TGCTCTCTTC TGCTGATAA CAAATACTAT TCTTTTATC CTTGCAACTC GACCCAGAAA GAGGTGGCTG TCAATGTCCA  
AGGCCCTGG GAAACGAAG ACTGGAAATN TGAAACCACT GGGCACAGG GGAATGGGTG GGTCTGAG

SEQ ID NO:1838: (Length of Sequence = 363 Nucleotides)

TCTCTTATG CCAACAATTA ACTGGGAGCT AGGTAAATTT ATTTGGCTAG ATAAACTAC CAGCTAGATG GATTTATTG  
GTGCCCTCAT ACAGAATGCT GTAGAAAATG TAAAGAAGAG AAAGCTCCTT CCAGCTAGAA GCACATGGGA CTGCTTCTAG

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GATGGAAACA AGTCCTGCTA TTTTCACAAT CCCTAAGNGT TCTCCAGGCC TCTGGAGAAC AAAGTAAAGT TGTAAGATCC  
CCAAAGACAC GGAAATCCTT GGACGAACAG ATTAGAAATA ACTACAAAAA ACAAGTTTTT TACTTTTCGAA AAGGGTACTG  
CACTGAAACC AAGTTGGACT TTTGGTCCAC CCCCAGGGCC CTCTTCAGG

SEQ ID NO:1839: (Length of Sequence = 359 Nucleotides)

CNNGTAGGGA AGAGGACTTT ATTGGGATGT TAGTAGGGAA ACATGAGAGG GTGAATTCCA GGAATAGAC ACTAGGACCA  
AGGTGGCGGT CACCTTAAAG AGCCATAAAT AAACCTAAAA AATTAAAGTG AGGAGGTGCC ACGTGGGGAG GCTGCTGGGA  
CTATCTGGGA ATTCTTAGGG ATGGAATTTT GGAATTGGAA AGGGGAAATA AGAATTTCCA GCCGTNTCAC AAAAGGGTGT  
GAAATGATCA CTTCAAGACT CCCTGCTGCC CTAGGCTGGG AGTTGGGGTT CTGGGGCTCC AGGAAGAGGG GAGGTCTGGG  
CTGGCTTNA AGGGGTGAAG AGGGCCCGGT CAAGTCTGT

SEQ ID NO:1840: (Length of Sequence = 360 Nucleotides)

CCAATGAGCC CAGCCTGACA CATATGGAAT GCTCGACAGG TCCACTGTCC CACGAGCAGA AGCTGTGACA AAGCTTGGAA  
ATTGCTTGG CATCCACCTT TGGCTCTATG CCCTCCTTCA CGGCACGGCT GACCAGGGGA CAGCTCCAGC ACCTTGGCAC  
AAGAGGGAGC AACACTTCCT GGAGGCTGG CACCGCTCG GAGCAGCTG GGAGCATCTT GGGCCCCGAA TGTGCTCTCT  
GCAAAANAGT ATTTTNTCCC TACTTCAAAA AGGAGCCGGT GTACCAGCTG CCTGCGGCC ACCTCCTGTG CCGNCCCTGC  
CTGGGTTAGA AGCAACGGTC CCTGCCCATG ACGTGACAG

SEQ ID NO:1841: (Length of Sequence = 332 Nucleotides)

GTGTGATTCC ATTTATATGA AATGTCCAGA ACAGGGAAAA CCTATTNAG ACAACAGAGA CACAAAGTCG ATCAGCAGTT  
GCCAGGGGAG GAGGAAGACG GGAGGGGAAA TGATTGCTTC ACGGGGTGAT GACAGAAATG TCCAGAACGT GACAGAGGTG  
GTGCTACAC AACTTTCTGG ATGTACTAAA TGCCGCTGAT TGTTCACTTT CAAGTGATTG ATTTTITAGGT TAITTGAATT  
TCATCTCAAT TAAAAAACC AAACACGCAA ACTGCTCCCG CCAGCTTCAG CCCCAGGSCA GACGGCGCAN CCGTGGGAGG  
GATGCTGAGC CA

SEQ ID NO:1842: (Length of Sequence = 246 Nucleotides)

GCTGTCAGC GCAGAGTTTA CTGAACNIN AGTTTCTCTC TGCACACACC GGGCATGACA CCTTCAAGTC TGNCCAGCAG  
TGGGTCCAGA AAGTACCCTG TGTGCTTGG ACGCAGAGGC TACAGTTCTN ACTGTGTGGC ATGGGAGCCT TCANAGTGCC  
CTCGGGAGCT GCCCCCTGTC TTGTCTGNA AAGGTGACTG GGAGGNTAGA AAAAGCAGCG GGCTGGCATT GTTTCGGGGG  
TGGGGT

SEQ ID NO:1843: (Length of Sequence = 313 Nucleotides)

ATTTATTGCA AACAAATTTG AGGTAAAAGA AGCTGACCCA GAACCCACGC CGTCCAGGC TGGGAAGTC TCTACTCGCC  
CCACACCAGG CCCGAGCAC CGCGGGCCCG AAGCAGCCCC CAGAGGACAG ACGGGCCCTG CGCACTGAGG TAGCTGCATC  
TTAAGCCCCC ATGAGTACAA CTGCCCAGGG CTGCCCAATT CCCAGAGGGG AGGAGGAGAG AGAGGCAGGC AGGGGGAGCC  
CCGGCTTCAG GTGGGGCACA CCCCANACCC TCAACAAACC TTCCAGCCTC TTGGGGCTGG GGCACCTCCT GCC

SEQ ID NO:1844: (Length of Sequence = 274 Nucleotides)

CTTCGCTTCT NAAAACCAAA CTCAGCCGC TGCCAGTCGG GACTTGGTGG CCGNCGCTG CCAGAATGCT CCACTGCCAG  
CCGGCCCTCC TGCTCGGTT TCCTTCTGT TTAGTGGGCA CACAGCACC CAGCTTTGGG GTGGGGTGA TGGTCCAGG  
GGTGCCAGGA GCCACTGGGA CAGGGTGAGG CTCCAGAGC CTCTCGAGG TGCCAGCTC TCCAGGGAGC TTCTGNCCTA  
AGGNCGTCTG AGGGATCTGC TCCTTAACCN CCA



SEQ ID NO:1845: (Length of Sequence = 441 Nucleotides)

GGGGAGGGGC GCACACACGA AGGGAGGTGT CAGCCGGGAC CGGAAATCCA ACACGGCAAA GGAAAAAAA CACAACCCGT  
TTCCCAAAGG GAGGAGCAGC AGGAGACGAT GAAGAGAAGG AACAGAACTC TCTGGGCAAT TCTGATGTAC ACCCAGGTAC  
AGTGGGGATC TCTTCACTTG ATGCCCCAAA AAAGGGATAA ACAAAACAAA AACGTGAGCA GCCAGCTTCA TTCTCTTCTC  
TGCTTGTCT CTGCCAGTG ACTTTGGGTT TTGTGTGAA GCTCTCTTAA TTCTTTGACC TTGAAGTTCC TCAACATCTA  
TCCAGTAGC CTCAGTTCC ACTTTGCTTC AACTAACATC TTGGACTTTT TTCAGTCTTG AACAGGCTA AACCTTTGAG  
ATCTTGAAC CCGACTTCAG CCTACTTAGC TTGATACTAC C

SEQ ID NO:1846: (Length of Sequence = 255 Nucleotides)

ATGAATTCAT TGTGTATTTA TTATTCACAG TTAATCACTA CCTACCAAAT GCTATCCGCA GAGTTAAAGG ATTAAGTACA  
TAGGTCTTTA TTTAAACACT GATTTTTTTT TTAAATATA TACACACAAA ACTTAGTTCA GCAAGGCTTC ATGATATACA  
CCAATCCAA AATAAAACAA TCAAATGGTC CNGGNGTAGA ATGCCAGATT CCTTTTATCA TCTGCGAGGA AAAGAGAAGC  
AGGATGAGGA AGAGT

SEQ ID NO:1847: (Length of Sequence = 31 Nucleotides)

CAGGACACAC GCAGGACCAC TGTGGATTAG AAACCCAC CTCACTCG CAACATTCTT CCCACATCCA CATCCAGGAC  
GGAGCCAAAT CTCATTGTIN ACCCTCAGTC ACCACCCC CATGGAGC CACTGGTTAC GNCATGGATG ACAGGTGTCA  
TGACAGGGA GAGAATTINT CCCCAGTAC CCGTAGG GGNCCAC CCCAGGCTA GGGTGGGAGG ATTTAGAGCA  
GTGCAAGAAA CCAAGGAGGA TGGAGCATCC AAAGGAAGA AGGCAGGC TNGGGGATTG AGGCAGGAA GGGCT

SEQ ID NO:1848: (Length of Sequence = 311 Nucleotides)

CCACTGGCCT ACATTATAGA AGTGTGTAT GCGGACCTG CCATTGTAT CATGGACGCA GGCCATGACC ATCATCACCA  
CCATTTTNT TGTCTGAAGA GAATCCAACT GCTACCCAAC CATCTGTGTC TGCACTCAGC TCAAATTTCTA CATCAGCCCC  
TATCATCCGG TAGCTGAGGA AATAGTCACA GGTCTCTGCA TTACAGCCTG GTTTGCCATA TCTAAAGCAT CCGTTAGTTT  
TTCCACAGTC GTCCACTTTG ATTTTGGCAA ATGNTCCAC AGGAGAAGCA GCAGGGCTNN GTGTGGGGTG T

SEQ ID NO:1849: (Length of Sequence = 318 Nucleotides)

GTGAGTCCCC CAAGAGGGGC CTCAGTCAAG AATGTGATG ACCAGTGGGC ACAGGTGGAG TGAGTGCTTG ATGCCCATGG  
TGAAAGCAGG GATGTGGGGC TTGTGCACAG TGANCTGCTG GACCTGTGAG GAGCCGGGSC CAGGCCGTGG CGTGAGGTCC  
AGAGGGTAGG CGAAGGCTTG GCCATGCTGT AAGTAGGGCT GCGGTCTTNA TAGATGGATG GCTCAGGTGG GCGGTACGTG  
GTAGGTCCAG GGCTCTCTGC CACATCTCTC TTGTAGANCC AGTTCTGTG CCTGGAGGCC AGACTNTAGC AGGGAGCA

SEQ ID NO:1850: (Length of Sequence = 406 Nucleotides)

GGAAGCCACT GATTTTCCCT CCAGTATGAT GATTTACTTT AAAAATGAAC CCAGAGGGAC GGGCATGGTG GCTTATGCCT  
CTAATCCAG CACTTCAGGA GGCTGAGGCA GGCAGATCAC CTGAGGTACAG GAGTTGAGGA CCAGCCTGGC CAATATGGTG  
AAAGCCCTGT NTCTACTGAA AATATAAAAA TTAGCCGGGT GTGGTGGTGT GCACCTGTAG TCCAGCTAC TCAGGAGGCT  
GAGGCAGGAG ACTCACINAA CCGTGTGGT GGAGGTGCA ATGAGCCGAG ATINCAACC TGACTIONCAG TTTGGCAACA  
GAGCAAGAC TNGTCTTCA AAAAAAATA ANAAGGGAAA AAAAACCNG NAAAAGCTTT TTTATTGTTA AAAACAAGT  
GGTAC

SEQ ID NO:1851: (Length of Sequence = 328 Nucleotides)

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CTGAGGGGCA TTTTITATTA TAAATTTAAT ATGGTTGATT AATGAAAAAT GACAATGAAG TACCAAGAAA ATGTTTGTC  
ATATAAAAAT TTTAGCAGCA TTTCCATAGT TTCAGGCTCC AACATTAGTC GTACTTCCTC CCTCCCGCTA TCAAAAAAAG  
AAGAGACTCC AATGGGATGG AGTAGAGCCT GGGGGTGTCC AGCTTTGTGT GGGCCTCAGA GAAATACTCC ATCCAGCATC  
CAGGATTCTC CCTCCCTCTC ATCCCTGAAG TGCTAGAATG TCAAAGCACA GAAAAAGCCT CCTTTGTGCT GACATTGGAG  
ACAAGGAT

SEQ ID NO:1852: (Length of Sequence = 174 Nucleotides)

GGGAGGACG GCTCTNGGCC CTTCCTGGCT GACTTCAACG GCTTCTCCCA CCTGGAGCTG AGAGGCGCTG ACACCTTTC  
ACGGGACCTG GGGGAGAAGA TGGNGCTGGA GGTTCGTGTT CCTGGCACGA GGCCCCAGCG GCCTNGTCT CTTACNAACG  
GAGCAGTAAG GACG

SEQ ID NO:1853: (Length of Sequence = 252 Nucleotides)

GAGCCATCA CACACACGGC CGCATAGTCA CACACGATA TCTACATGTC CCCCCACAT ATACACACAC ACATATACAT  
GGACCCATGC ACACACACAG CTGGATATTC ACACACACTT GCACATCCAC TCCATATACA TAGACACGCA CAGACACAGC  
TGCATGTTCA CACACGNGGA CGTGACACG GACACAGACA TGCATGCATA TGCGCACAGG TGTGTACAGC CTCAGTGGTG  
GGGGTTGGCT GT

SEQ ID NO:1854: (Length of Sequence = 288 Nucleotides)

GGAAGGAGGG CTAACAATG GTCTGCAGCT CAGTTACTCC TCATCTCGC CTGGGCGGG CCAGCATCCA CTCCCCCTCC  
TGTAAGCAT TTGGATTTC TTGGGGAAC AGCCCTGCC TCTGTCTGA TCCATGTGT TTGAGATCTC ACAGTAGCAA  
GTGACTCATG TTGGTTCACT GATTCCCAGA GGCTGATTCA AGGATGTCCC CAGCTAGACC CAGGATGGTG GACTCCAGAT  
TGCGGCACTG GGCAGTTTCA CATCTCAAG GCTTGCCAT CATCGGG

SEQ ID NO:1855: (Length of Sequence = 293 Nucleotides)

AAAAATGCTG TTGATATTTT AGTTATTAAT TCATATTAAC TTTGGCTGAA ACTTTTAAAT TCTATTGTGA ATAGTCAAGT  
AAAATTTAGA TTGTACATT CTGGGTAGT ATTAGATTGT TTTTAAGATT GTTTTAAACA AGATGTTTTT AAGATGAGTT  
TTAAATAGTT CTCTTAACAC AAATAAGCT TAATATGAGT ATTTGAAGGA AATTATCCCA AACCATCCA GTTCCTGGCT  
GTGAAAGGCT TTTCCAGGGC TAATAAGTTT TCCACTTCAG CCGTAAGTAG GTG

SEQ ID NO:1856: (Length of Sequence = 308 Nucleotides)

ATCTTAGCAG AATCTTGAAA AGCCCAGAGA TCCAAAGAGC CCTTCGAGCA CCACGCAAGA AGATCCATCG CAGAGTCCTA  
AAGAAGAACC CACTGAAAAA CTTGAGAATC ATGTTGAAGC TAAACCCATA TGCAAAGACC ATGCGCCGGA ACACCATTCT  
TCGCCAGGCC AGGAATCACA AGCTCCGGT GGATAAGGCA GCTNCTGAG CAGCGGGCAC TTACAAGCCA AATCAGATGA  
GAAGCGGCG GTTGACGGCA AGAAGCCTGT GGTAGGTAAG AAAGGAAAGA AGGCTGCTGT TGGTGTTA

SEQ ID NO:1857: (Length of Sequence = 299 Nucleotides)

GGGGAAGCT AATTGGCAAT AATCCTTGG GGAAGGTCAG ACTCCTCTCT TACAGATCTA GGAAGGCCT GTTAAATGA  
TGGCTCTTTG GAAAATGCCA AGCTCCTTCA GATTCCATAC CCTCTCGGC CCTCAAGCAT AGGCAACGAA CTGTTCCTG  
GCTTCAGNT TTCTCATGTA ATCAAAGCTC TCATGCATGG CCTGGATTG TAAACATG CTGCTGCCA GCAGTGGCAA  
GTTAGCCTCC TGACCTACTT CTCTCCTCT TCACTCTGG TGTATGAAG GGGATGAG

SEQ ID NO:1858: (Length of Sequence = 295 Nucleotides)

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TAAGACTTCC TGTTAGTAAA AGCTACCTCA TGAAAAGTAT TGATGTTAAT TGCCAAACAT TAGACTAGCT TTGTTACCG  
 TTTCAGTTAT TCAATTTAGT CAGCACATGT TTGAGTGTCT TACTGCAGGT GAATAATCCA TGATTTCTGC CCCAGAGTAG  
 TTCATAAGAC TGGTAGGATA CATAGATTG TAAATAAATA ATTATAATTC TGGGCAGTAA GTGCTGCTAT AGAAGTCTCT  
 ATAAAGCAAT GTGCAACAC AAGAAAAGGA GCGGTTAATT CCTTATAGGG AAAGG

SEQ ID NO:1859: (Length of Sequence = 326 Nucleotides)

CTTTATTTAG TGCTGGGGCT TTGGAAGCAA ATGTACCTGA GTTGAATCT CAGGGATAAC CTTTGTACTG TGGCCCTGGG  
 TAAGTACTC ACTGTCTCTG AAACCTCAAG TTCTCATAA ATAACCTAAG ATGGACAATC ATAACCTCTCT CTTGGATTGA  
 GGTAGGAGAA TATGGTGGAG GCAGGGAAAC GAAGGCCATT TCACTCCAAC TTCTAGAAC TAAATTAAAA GGAAACCCCT  
 AATTTTCCAT GCCTAAGTAA CAAAAGGACC AAAGGTTACT CGTTTGCAA ACTCCACCT TTTCTGCATG GCAGATGGGA  
 AGTTGG

SEQ ID NO:1860: (Length of Sequence = 294 Nucleotides)

CCACCCCTAA AAGCACTGG CCCGCTACA GCAAACCAGG TCTGTCCATG CGGCTGCTGG AATCAAAAAA AGGCCTCTCC  
 TTCTTTGCGT TTGAGCACAG TGAGGAGTAC CAGCAGGCTC AGCACAAGTT CCTGGTGGCC GTGGAGTCTA TGGAGCCGAA  
 CAACATCGTG GTTCTGCTCC AGACGAGCCC TTACCAAGTT GACTCACTCC TGCAGCTCAG CGATGCCTGC CGCTTTCAAG  
 AGGATCAGGA GATGGCTCGA GACCTCGTAG AGAGAGCGCT GTACAGCATG GAAT

SEQ ID NO:1861: (Length of Sequence = 183 Nucleotides)

TGAAGACTCC TAATCTAGTG CCTCGAGAAA AGCAGGCAAC AGAGGCCTGA TGTCTGACAT TGAATCTTTG GAAGATTAAA  
 CTTCCTCACA GATTTTATA ATNACTTGG AATNATGAC TGATGCCAG GCTGTTCTT GGGTGGACAG TTTGCTTTT  
 TTTTTTTTT TTTTTTT TTT

SEQ ID NO:1862: (Length of Sequence = 296 Nucleotides)

TTGGCTTCT TAAAGTCTT CCCATCCCTC CTAAGGTCTA AGATGATGCA TTAACACAG AGGATGCCCA ACAGTGGCTG  
 ATGAATTAC CAAGTAAAT CTAAGAGGTA GAAAAATGTG GTAGTTTCTA AATTTTATTT TATTAGTATG CAGGTGGGAT  
 TCAGAGACGT AAGATCTTAG CCTTTATTTT CAACATCTCC CATGCAATGTC AACAAAGATT ATCAACACA GGAAGTGAAT  
 AAAATACTAT GTAGACTCTG ACCCTCTTTA TATAAATGT GATTGATCAG GTCTGG

SEQ ID NO:1863: (Length of Sequence = 259 Nucleotides)

CAAAACAAA AGGGGCTCAA ACCAACAGGA AGTCAGCCCC ACCGCAAGCC GGACTACAAC TAACTCGTGC TCTCCAGCT  
 CAGGCGTGA AGCCAAGGCT GTGCCAGGCC TGGCCAGGCC AAGCAGGATG ACAGCAAACG CATCTGAAAC GTNTAGCAAT  
 CAGGTCCCCT GTAATGTGCT TGGAGAGTNT GGACRAGGCC CGAGATGACG AGCTATGAGC TGTGGAAGGG AATGGGGGAA  
 GCAGAAGGGC ACAAACAGA

SEQ ID NO:1864: (Length of Sequence = 290 Nucleotides)

ATCCTTACCA ACAATGCTTC CCAACTGCCT CAAAGCTCTC CTAATGAGA ACATAGTTCT TTCTGAGCAA GGTCTGTGG  
 ACCATGAAGA ATGTACCAA GCTCCCTCA GAGTCAGGG GAGCTCAGCC AAAGCACAAG TGCACTGCC AGCTCTCC  
 ACTCTGCACC TGCTGCCTCA NACTCCAC GCTGAGCCCA GCGCCCTACC CTCTGAAGGT GTTCCCATG TGATCTGAC  
 ACACACACC CACAGAACC AGATGATCTA TGCATACAG CATTTAGCTA

SEQ ID NO:1865: (Length of Sequence = 236 Nucleotides)

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CATTTCIGTT ACATTGAGAC TTCAGTCACC AACATCTGGT GGCAGAGATA CAGGTGTATG AAACATTTCT ATTTACCCAA  
 ATATGCCAGT TCCCAATAG GATGACTGCA TTTAGTGTAA AACTGGCTTT TCTCATTAGA TACTCTAATT GAGGAATATT  
 TAGCTTCTTG AATAGAAACC ATCCAAATGA TGTTTTTTTT TTGATATGTC TGTAACATA AAAATCAGCA AATAAG

SEQ ID NO:1866: (Length of Sequence = 424 Nucleotides)

TACGGGAAGG CGGTGTTTGG AGGCTGGAGC CGTGGCAACG TCATTGAGAA AATGCTCACA GACCGGCGGT CTACAGACCT  
 TAATGAGAGC CGCCGTGCAG ACGTGCITGC CTTCCCAAGC TCTGGCTTCA CTGACTTGGC AGAGATTGTN TCCCGGATTG  
 AGCCCCCAC GAGCTATGTC TCTNATGGCT GTGCTGACGG AGAGGAGTCA GATTGTCTGA CAGAGTATGA GGAGGACGCC  
 GGACCCGACT GCTCGAGGGA TGAAGGGGGG TNCCTCGAGG GCGCAACCCA GCACTGCCTC CGAGATGGAG GAGGAGAAGT  
 CGATTCTCG GCAACGACGC TGTCTGCCCC AGGAGCCGCC CGGCTCAGCC ACAGATGCTT NAGGACCTCG ACAAGGGTCA  
 CCCCCTCTCC ACCCTGGACT GGCT

SEQ ID NO:1867: (Length of Sequence = 256 Nucleotides)

AAACAATTGA AATCCACAAG AAATTACTAA CAGCACGTGT TTACGTTTTA TCCTGAATCA TACATTTTAA CAATTCACAG  
 CTACAGGAAA TCTAGAACAA AATCAAATAT TCATCACGTT GGGTTGAAAA GTTGAAGAT TTTGCATCTT ATTGAAAAGA  
 ATTTTTCAAA AATGTTTCTG TACAAATGAA TGAATTGCA CCAGGCTGCC CATGGACACC AGGTGTGGCC GCTTCCCAAC  
 GGTCACCCAC CAGCTT

SEQ ID NO:1868: (Length of Sequence = 297 Nucleotides)

CAAGGTTTTT TTTTATTTGT AGCTATAGCT ACAACTTGGC AGCATGGGGG AGGGTGGGAA TGTCTGGAG GGTCTCCAG  
 CCTCCGCAA GCAGAGTACA AAGGCTGCTC GGGGGGCCG CCGAGGGGCC GGNATGAGCA GTGTAAGCAG CAGCACTAAA  
 CCTGGTGCCC CCTCAGGTG GGGTGTCTGG AAGACGGTGG GCAATCCCTG CAGGATGGGC GAGGACCAGA CCCCAGGGCG  
 GGGATCTGC ATCCCTAGAC CATGTTGGGT CTGGGTCAN GGCACCTINGG NATGCTA

SEQ ID NO:1869: (Length of Sequence = 470 Nucleotides)

CAGACATCTG GAGCATGGGA CTGTCTCTGG TAGAGATGCC GGTGGGAGG TATCCCATCC CTCTCCAGA TGCCAAGGAG  
 CTGGAGCTGA TGTGTTGGTG CCAGGTGGAA GGAGATGCGG CTGAGACCCC ACCCAGGCCA AGGACCCCCG GGAGGCCCCCT  
 TAGCTCATAC GGAATGACA GCGACCTCC CATGGCAATT TTTGAGTTGT TGGATTACAT AGTCAACGAG CCTCTCCAA  
 ACTGCCCCAGT GGAGTNTTCA NTCTGGAATT TCAAGATTTT NTGAATAAAT GCTTAATAAA AAACCCCGC AGAGAGAGCA  
 GNTTTTNAAG CAATCATGG TTCATGCTTT TTATCAAGGG GATCTNGATG CTGAGGAAGT NNGATTTTTT CAAGGTGGN  
 TCTGCTNCAC CATNGGCTT TAACCAGNCC CGNACAACC AACCATGNN TGTGGNGTT TAAGNGTTTT

SEQ ID NO:1870: (Length of Sequence = 344 Nucleotides)

AGAGATTAGA TTGTTAAAC ATCTAGGTTA AAATGGTTAA AAGGATTTTC ATACAATTTT AGGCACTATA CACGTGTGTT  
 ACAACAGCAT TGGTACTTGG ATATGGGGAA AGATAAATCC GACATTTTAA TATCTTGATC AATTGTGAC ATTCAAAATA  
 ATTCCATTAA AGAAACATTA ATCAAACTT AAAGAGACAT ACCACTAAGT ATCCACACA GTATACTGAA AATAAATATA  
 GNAATACAAC CAGAAGTCTA CAGTACCA CAGTAGACAG ACTGGTGAAG NCCCAGCTTT TCATGGGCAG TNAAGGGCTC  
 TGGGCTAGAT TTGGGTGCA ACTG

SEQ ID NO:1871: (Length of Sequence = 278 Nucleotides)

GGATTTATIG TCATCTCTCC AAGGTCAGCA GGGGAAGGGG ACACCAGCCA CACTTCACCA CAGGCATAGG TGGCACTGAG  
 CCACCTGGCA CTATCTCCAC GTGCTCCACA CGGAGGGGTG CCTTCTCACT GGCAGCAGCT GCACTTCTCT GCTTCTGCTT

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CAGCTGCCTC TCGCCTTTG CACACACAGT CCTTGGCACA CTTCTCACAC TNCGCAGGCA GCAGGAGCAG CAGCTCTTCT  
TGCAGGAGGT GCATTTGCAT CCTCGCACT TGCAGGAG

SEQ ID NO:1872: (Length of Sequence = 271 Nucleotides)

CTTGCCATCT TCACAGCCAG AAGCTTCCTT GCTTCATGCG CAGACCCCTCG TGACTCCCTT TCCCTTATAA GGGCCCCCAT  
GATTACTCAG GGCCCACTC AACCATCCAC GGTCACTCC CCACCAAGAA ATCTGAACT GAAGCACAGG CGCCGGGTCC  
CTTTTGCCAC GCAAGGTAACT ACTTCCAC GTCCTGGGT TCCAAACCTG CACATCTCTG GGGGCTGTTA TINCACCCAC  
CGTCATCAGT GAGGCGCTT NAGGAGGGC T

SEQ ID NO:1873: (Length of Sequence = 332 Nucleotides)

CAGGGTATAG TGCAGTGGCG CAATCTGGC CCACCACAGT CTGACCTCA TGGGCTCAAG TGATCCTCCC ACCTCAGCCT  
CCCAAGTAGC TGGGACTACA GGCATCCTCC ACCATGCCA GCCAATTTT TGCAATTTTC ATAGAGAAGG GGCTTCACCA  
TGCTGCCCAG ACTGGTCTCG AACTCCTGGG CTCAGCCAT GGAATTGCCT TGGCTCCCA AAGTGTAGG ATCAGAGCCG  
CGAGCCCTG GACCGGCCT ATAGTTTGTG TTTGCTTTG TTTTGTITT TTGAGATGGA GTCTCACCTG GTCANCCAGA  
TGGGAGTGCA GC

SEQ ID NO:1874: (Length of Sequence = 317 Nucleotides)

CTCTCCACT CAACCTCCAG CCCACCTCA GGTGGGGAA GGGCTGAGT CTTCCTCTCC CATACATACC TCACCCGGCC  
CCCAGCCAC AGAGAGGCTG AGGGAGGGG TCTGGTCTT CCTCCATCCC TGTACCTGCT TCTTCCCTCT TCATTTCCAC  
CTCTAGATC TTTCCCCCA CCCAGCCAC CTCAGGCTG GGAAGGTGA GGAATTTT CTCTCCACAC CCTACCCAC  
CTCAGCTGCA GCTGTGCCC TGGGCCAGGA GAGGCATGG TGAACAACCA GACCCACAAC CCGGACCT GCAGGCT

SEQ ID NO:1875: (Length of Sequence = 185 Nucleotides)

GTGTTCCACC CACCTGGCC TCCAAAGTG CTGGGATTC TGGCGTGAGC ACGCTGGCC TGGACAGTCT GCGCTAGAT  
GAGTGGCCA GCAAGTACA GCTACTGCT GCGCGACCC CAGCCCTGA TTCTACGCC GCTGGCAGG GGGACGGCA  
GGGAGAGGTC CAGCGCGCG GCAAG

SEQ ID NO:1876: (Length of Sequence = 214 Nucleotides)

CCTGGGGACA AAATAGTCAG CAAATTCTCA AGGGGAGAAA ATAAAGTACT TCCTTCTGT TAAAAAAG TCAAGAGACA  
AATCTTCTT CCCCATTCT CACTAATAGT TATTGAAGG GAAAAA AAAACCCACAA CTTTTTAAAC TAAAGATAAA  
AACAAATGAA AATGAATAAG ATCCAAAGAA TGTCTTTGT TACTCTGCT TATG

SEQ ID NO:1877: (Length of Sequence = 340 Nucleotides)

TTGAAGAAG AAGAAGTTGA ATTTATCAGT GTGCTGTCC CAGAGTTTC AGATAGTAT CCTGCCACA TTGTTATGA  
CTTAAACAAG AAACCTACAG CCTATTAGA TCTTAACCTG GNTAAGTCT ATGTATCCC TCTGAACACT TCCATTGTTA  
TGCCACCCAG AAACCTACTG GAGTTACTTA TTAACATCAA GGCTGGAACC TATTTGCTC AGTCTATCT GATTCATGAG  
CACATGGTTA TTACTGATCG CATTGAAAC ATTGATCACC TGGGTTCTT TATTTATGA CTGTGTCATG ACAAGGAAAC  
TTCAAACTG CAACGGGAGG

SEQ ID NO:1878: (Length of Sequence = 326 Nucleotides)

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GAAAAACAAG GAAAATAGGC AACAACTGC AATGGACACT TTTCTCTACA GAACCTTTTC AACCTGAAT TGAATTGTTT  
 CCTATTCAAT TNCATAATAA AAGTTACTTT GCAAGATATA AGGAAATACT GTCCCAAAGA TTTTCACTAG TCATTCAATC  
 CATTAAATAGG ATTTGAAAAG GCATCATTAC ACAGGGTTGA AAATACTCTG GAATGAGACT GCTTTACAGT CAGAATGCCT  
 GAGTTTIGAG GCACGTGTAC TTCTAAACAT CTCTAAGTTT CTATTNCTC ATCTAAAGGA GTAATATTAC TTTCTTAAA  
 AGGTTG

SEQ ID NO:1879: (Length of Sequence = 222 Nucleotides)

GAAAGGGAGA GGTTGCAGCG AGCCAAGATC GTGCCACTGC ACTCCACCT GGGTGACAGG GCAAGACTCC ATCTTAAAAA  
 AGAAAACCCA GGAGTCTTTG GTTAATGTAG TGCAGGACTC TGAGCTCCCG GGAGGACCT TCCCTCCAG ATGAAGTGTG  
 ATGGACCAGC CCAAAGGAGG GGAGAGAGCA CTINGGCCAT AGTGGTGGTG GATCTTTCTA AC

SEQ ID NO:1880: (Length of Sequence = 244 Nucleotides)

GACATGAATG GTATCTCTCT GGGGTATGAG ATCCGCTACT GGAAAGCTGG GGACAAAGAA GCAGCTGCGG ACCGAGTGAG  
 GACAGCAGGG CTGGACACCA GTGCCCGAGT CAGCGGCCTG CATCCCAACA CCAAGTACCA TGTGACCGTG AGGGCCTACA  
 ACCNGGCTGG CACTNGGCCT GCCAGCCCTT CTGCCAACN CAGGACCATG TAAGCCCCCT CCGCGCGAC CTCCTGGCA  
 ACAT

SEQ ID NO:1881: (Length of Sequence = 156 Nucleotides)

GTACAGGGA GAGTTGAGCT GTGACAAAGT CAAACACAGG CCTTGGCCAC CCACAGGAGC TCTGCAGCTG GGGTGGTCTT  
 GAAAGTTGTC TCAGTGAAGG CAAGGTGCTG AGCTTATTAC CCCAGCAGTC ATTGTATTTA GGCTCCGTGT GGTACC

SEQ ID NO:1882: (Length of Sequence = 210 Nucleotides)

TTTTTTTGA AACGAAGTCT CAGTCTGTCA CCCAGGCTGG AGTGCAGTGG CACGATCCCG GCTCACTGCA ACCTCTGINT  
 CCCAGGCTCA AGCTAGTCTC CTGCCTCAGC TGCCCGAGCA GACGGGACTA CAGGCACCCC CACCAGCCCC GGCCAATCTC  
 CAAATGGTTC TTTTTTCCG GAGTAGTAAG TTACAATATG GGAGATTATT

SEQ ID NO:1883: (Length of Sequence = 214 Nucleotides)

GTGATGAATA CATCCAGTTT TCCAACCACA TTCCACCAGG TGGGTGTTTG GCTGTGGGAC GCATTATGTA ATCTTCGTTG  
 CCAGGAAATT TACCTTCTTA ATTACATTTT GCAAATGTTT ATTGAAGCC GCCTTCTTGG AGCTCACAGT AACTAGGAGG  
 TGGCTGCTGG AAGCCCCAGG GCACCGTGG AGGGACAGGG GAACGTCCCA GACC

SEQ ID NO:1884: (Length of Sequence = 211 Nucleotides)

ATCTTTGCT CTATGTGCCA TCACCTGGAC ACTCTAGGTA ATACCCCTG TTGGGCAGGG GTGAGCTCCC AAGGCCTCAG  
 GCAACCCAGC TCCCATGACT TTGCTGGGCT CAGCCACAT AACTGTTCTC ACAGGATAGA GTTGATACACT GGTGCTTACA  
 GCTTCTCTGG GCCAGTGTG CATGCTGCCA GTGCTGCAG CAGCAGCCCC A

SEQ ID NO:1885: (Length of Sequence = 212 Nucleotides)

ATTAGCTGAA TTGCGTGTG GCGGTTTGGG TAGGCAAAGG AGACATCTTG GAACTGGACA AGGCCCTCCA AGTGTAAGGG  
 AGTCAACAGA CCACTGGGTG GGCAGCGAGG GGTGCGGTCC AGGTACTCAA ATATTTTCTC TGAGGAGCCC ACAGCCTTCT  
 GTACTCTGGG GTAGATGGAG AGCAGTACCT CCACAGCCTG GGTGACTGC AT

SEQ ID NO:1886: (Length of Sequence = 208 Nucleotides)

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CATCCGCATA GTATTACAT CATGGGTATA GGCAAGINCT ACAAATCAGG NCTTINCCIT GGGGATGGAT GTTTGGAGCT  
 AGTTTACCAG CACACCAGTG GGTAAGAGTG AACAAATACT TTTTGTATCC CACAGAATCT TAAAAAATAC TTTACTTCGA  
 AAATGTCTCT ACTAAGTAAT CATATATATA TATATATNTG TATATATA

SEQ ID NO:1887: (Length of Sequence = 332 Nucleotides)

CTCGTTCACT GCCCGCCAAC TCCCATTCOA ACTTCCTTTT TACACTGGAT GTTCTATCA CATCTGAGG ACCACTAACC  
 CACCAGCAAG TCTCCCCCTG ACACACATTC ACGTAGGTCC ATACCCCTCA GAGTCCTAAA GGGTTAATGA GAAGCCACCT  
 CAGCTTTGGT GAATGGAGCC CCAGCCCCAA ATCCCTCTCC CTTGCAAATA TGGGACAAGT AGGGAGAGTC TGATGGAGGC  
 ACCAGGACAA CTACAACAAC CTCTTACCCC TCAGCTATAG ACACCTAGAT CAGGACAGAG GGATGCATAT GCCCTCTCCA  
 CCTTAACACC AA

SEQ ID NO:1888: (Length of Sequence = 224 Nucleotides)

AAGAGCTGAT TGAGGCTGCC AAGAGGAACG ACTTCGTAA GCTCCAGGAG CTGCACCGAG CTGGGGGCGA CCTCATGCAC  
 CGAGACGAGC AGAGTCGCAC GCTCCTGCAC CACGAGTCA GCACTGGCAG CAAGGATGTG GTCGGCTACC TGCTGGACCA  
 CGCCCCCCA GAGATCCTTG ATGCGGTGGA GGAAAACGGG GAGACCTGTT TNCACCAAGC AGCG

SEQ ID NO:1889: (Length of Sequence = 261 Nucleotides)

CACCTTACTG AGTCACACCC AGCTGTAAAC ATGTCACCGT GAGANTCCCG CCCCCACCC CCAGGCGGCA CAGTCCGCGA  
 TGAAATGACA GGGGAGCGGG GAGGGTCGCC GGAGCGGGTG CCAAGCAAGG CAGGGCAGGC AAGTCAGCA GCGCTGAGT  
 TTCCGGGAGG AAGCCCGGAG GAGGTGGGGT GGGGCAGGAG CGNGGGCTGG GGACCCGGCC GAAGACCAGG GGGCCCAGGA  
 AGCCTCTTTT CGAAGGNT T

SEQ ID NO:1890: (Length of Sequence = 312 Nucleotides)

CTGCGAGACT ACGAGACGGT GGTCAGGTG AAGCCCCATG ACAAGGATGC CAAAATGAAA TACCAGGAGT GCAACAAGAT  
 CGTGAAGCAG AAGGCCTTTG AGCGGGCCAT CGCGGGCGAC GAGCACAAGC GCTCCGTGGT GGACTCGCTG GACATCGAGA  
 GCATGACCAT TGAGGATGAG TACAGCGGAC CCAAGCTTGA AGACGGCAAA GTGACAATCA GTTTCATGAA GGAGCTCATG  
 CAGTGGTACA AGGNCAGAA GAAACTGCAC CGGAAATGTG CCTACCAGAC AGAGAAGATT ACAGTATGTG GG

SEQ ID NO:1891: (Length of Sequence = 298 Nucleotides)

CCTAAAGGCC AGGCAAGGCT GATTCTCCAC TTCCACATGA GACAGAGCTG ATTCTGCAGG GAAACGGCTG GGGAGGCTCC  
 ACCTCTTTCC TCCCCACAAC CATTTACTGG GAAGTTGTGT ATACTTGGCA GTNTGGGAGG AAGGTACTTG GAAGACCTTG  
 CCAGCCATCT CCCACCCAGA CTTCTTCTCA CCAGCACAGT CTTCAAGGCT TGGTGGGAAA GGTGTGTGGG AGTGGAGAAA  
 GACAAAGGCG CCTTCTTNA GAGAGGAGCT GCAGAGAGGG GCAAAGGGGT TCCTAGCC

SEQ ID NO:1892: (Length of Sequence = 333 Nucleotides)

CTCCAAGGTC ATCCAGTCOG TCGTAATTA TGCAAGGGT GACCTGGACA TATCTTACAT CACATCCAGA ATTGCAGTGA  
 TGTCAATCCC AGCAGAAGGT GTGGAGTCAG CGCTCAAAA CAACATOGAA GATTGGGTT GTTCTGGAC TCCAAGCACC  
 CAGGGCACTA TGCCGTCTAC AACCTGTCCC CGAGGACCTA CCGGCCCTCC AGGTTCCACA ACGGGTCTC CGAGTGTGGC  
 TGGGCAGCAC GCGGGGCCCC ACACCTGCAC ACCCTGTACA ACATCTGCAG GAACATGCAC GNTGGCTGC GGCAGGACCA  
 CAAGAACGTC TTC

SEQ ID NO:1893: (Length of Sequence = 487 Nucleotides)

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CCAGATAGAG TTTCTGTTTT TNAGTTTTAC ACGTGCCACA TCAGGGAAAG TTAGGTTATG ATTAAAGCAA GAGATGATAG  
 ATGAACAAAC AAAGAAACAA CAACAAAAG CCCATGCAAG AGGCAGGAAA AGAGGCTGAC TGGTTAAAGA ACAGGCCAGA  
 TTGGACAATA CTGATCAAGA GGGGTTTACA TTTGAAAGAA CAGTGCTTTA TTCTCTACT GACTAGAACT AAAGGGATTT  
 TGGCCGGGTA CGGTGGCTCA CACCTGTAAT CCCAACACTC TGGGAAGCCA AGGTGGGCGG GTCACGAGGT CAGGAGTTG  
 AGACCAGCCT NACCAACATG GGTGAAACCC CATCTCTACC CAAAATACAA AAACCTTTNC CGAGCGTGGG CCCGGCGTTG  
 GTTGGCTCAT ACATTNATN CCCCNCCTT NGGGGGCCCA NCCGGGCGGT TCACCTTAGG GTCAAAGGT NCGGGNCCT  
 TCTTGGC

SEQ ID NO:1894: (Length of Sequence = 283 Nucleotides)

GGTGTGAAG TGGGCTCTGG AGAAGCTGA GCTGACCAAG TACGAGACA AGCCGGCTGG CACCTACAGC GGCGCAACA  
 AGCGGAAGCT CTCCAGGCC ATCGCCCTCA TTGGGTACCC AGCCTTCATC TTCTGGACG AGCCACCAC AGGCATGGAC  
 CCCAAGGCC GCGCTTCCT CTGGAACCTC ATCTCGACC TCATCAAGAC AGGCGTTCA GTGTGCTGA CATCACAG  
 CATGGAGGAG TGGAGGCGC TGTGCACGG GCTGGCCATC ATG

SEQ ID NO:1895: (Length of Sequence = 234 Nucleotides)

ATGTCCATTA GCCTCATTTG TCATCTGAGG GAGCTGGTGA GAACAGCCTT GGGTGAAGG CATCCCTGGT AGAAGTCGGG  
 GGAGATAGAT AGTCACAGTT CCCAGTTGG TGGAAATNGG ATNGGAGTAG GGAGAGGCTN GAACAGACCC TTCCCCATT  
 ACCTGNGAA TTTCTCTC CACTGCCCT AAACACTTA TTCCATCAC AGGGGAGAAA TNCCTGAG AAGG

SEQ ID NO:1896: (Length of Sequence = 285 Nucleotides)

CTTTAAAGTG TAATAATATG ATTTTTTAAA AGAAATTTAT TACTTGTTGC AAAGTCTTT TTAACCAAGT TTAGATTTCA  
 AGAAAAATA AATGGAATC ATGAAATTT CATTTACAT TAATGGTCTA AAAATAAACC AAAGGACATT ATGTGTGCAT  
 GTGTGTATAA GTGCACACAG AAATATATAT NCATATGNG ACTATATACA TGTGTGTATA TATGTGTATA TATACATNCA  
 CTGTGTATAA TGTATATACA CATATACCTA TATGTGTGT ATGTG

SEQ ID NO:1897: (Length of Sequence = 288 Nucleotides)

GCAGGTATAT GTTTTTATTT ATGTATTINA ACTGACTTAT TTGTGTATCC CACTAGAACA ATACATTCAC AATATACTTG  
 CAGAACTGTG CCTGGSGSAT CATGGGAGCA GAGAACTTGT CCAGTGAATA GTTGTGAAG AAAGGAGTAA AAWCTCCCC  
 AAACCTAAA GGCATCCTTT TCGTAGTGTG TGTCCAYAG GTATGGCTGC TGAGCACCAG GGGCTGCTCA CCATGNTCC  
 AAGAAGCAGA GTCANGAGG CAGACAGCAG GGTATTATTA GTGCACA

SEQ ID NO:1898: (Length of Sequence = 398 Nucleotides)

CAGAAGTAAA AGATTTTAT TGTCTATAG ACATCTCTGA AAAGAGATCT AATTGAGAAA ATATACAAAG CATTTAAGAG  
 TTTATCCCC AGAGACTGAC TGAAGGCGT ACAGCCCTCC TCTCAAGGC TCAGGCTGA GAACGGTTAG CATATCGAAT  
 GATCAGTAAA AACATGCAAA AGTGAGAAGG AAAGGAAAA AGGTGCATTC CCTAAGCTG AGGGGGATGG AATTTAGAA  
 CAGAGGAGGC AGGGTGGACA AGTACCAGGT GGCTCTCCCT TTCCCTCTGT GTTATCTTTC AAAACAGTTC CAAGCTTTGA  
 GAAAGCAATG AGCTCCACCT ACTCAGCAGA CCCACGGTTC GTCCCTCTGG ACGTGACTTA GCAGTGACCT TGCTGCC

SEQ ID NO:1899: (Length of Sequence = 227 Nucleotides)

CATGGGGACC CGGGTTTATT TTATTAGGAA GGAACAACC AAGCACCCA TGTTCCTGCC CGGACTCCC GGTGGGACA  
 TGCCAAAMAG CCGGGGATCG AACCAGCCC ACCTGTCTG GRGGKCCCTT CCTTCTCAGG CCACAGAAAT AAACCGTGT



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ACTTYYTATT GTTAGCACA CATTACCAGA AAACGKTAAC GGCAGCCAAG CAGGACAGAC AGTTAAG

SEQ ID NO:1900: (Length of Sequence = 405 Nucleotides)

GGGATGCACT GGGTTTCACA TCAAGTTCTT GAGAGGWTCC CGAACGACTT CTCTGCCCCA GGGGAGTCCG AGCCACAGTT  
TTCTGATCAA CTGATGATTC TRACCCGCTT CTTTCTCTCT GGGGGGTAAG ACACCTGTG TTGAGCTCTG GGGATGATGG  
AGAACGACTC CTCGGCTAG GAGTCTGAGG CAAAGCTTTC GGTCTGCGG AAGAATCACA TTCGTTCTC CCTCTAGATG  
CGTTCCTAGG TATATCTTTC ATTCCAGGAG AGGACCCAGA CAGGCTGTGC CTCGAGGGAG TCCCAGACCC ATCTCTAAGT  
CCTGGAGAAG ACCCAGACCT GCTTCTCCTT GATGGAGTTC TGGTAAACCA TCTTTCATT CAGGAGAAGA TGCAGACTAC  
TTCTT

SEQ ID NO:1901: (Length of Sequence = 244 Nucleotides)

ATRAATCATA TGCTAGTTTA TTTATCTTAT TATGAGAGA TAATTTCAIG ATGACAGTTA TCAATAATCA ATTACAATAT  
CAAGAAATTC AAAGAACAAA ATCTTGCGAG GACTATGCTT TTGTATTGG ATTTAAAAAG TATGTGATCT CATTTTCACA  
TACCAAGCTG AGAGGCCATT TAGACTATCT CTTTGCTAAT TTTTGCTTAC TGCTGTAGGG AAGAAGATTT CCAATGAMCT  
TTAG

SEQ ID NO:1902: (Length of Sequence = 329 Nucleotides)

TAAAAATAAA AAAATAAATA AAATTTTAAA AATAATAAAA ATTCATAATA TACACATATA AAGAAATAAA AAGAAGTCTC  
AGTTGCAGCT ATTTGTCAAA ATTAATATCC ATTCTTWTW ATATACGGTG AATATTGCGC AATTATAGAT CTGGATTTTA  
AACCATTAA TGAAGCGCA ACACCAGTG TTTTAAGGTG TTGGCATTCT TCGCTGATTT GGCTGTCC CAAATGTTACA  
TTATTTAATC TTGCAAAAAT GGTCTGATG CACTTGGGAT GTGAAATGCT GTCCGTTTT ATTTTTTTAA TGTGTATATC  
CTGGGGTGT

SEQ ID NO:1903: (Length of Sequence = 421 Nucleotides)

ATTTTATATT CCACAGTCAG GTGGGTCTGC GATASTCAIT TAATGTTAAA CGCCATCAGG GGCTCTCTCT CCCGTTCTG  
CCAGGGGCTT TTCTGTCTT CTCTTGGTC ATCATCATCA TCGTCTCTCT CTCTCTGCTG GGCAGATCTT CTCTGGTGGG  
GGCTGGCTGC TGGCTCGAG GGGGCATCG CAGTCGCTCT GGTGCTCTCC TCTGCAGGC TGGGCAGCTG GCCACCACTT  
CTCGACTCG ACCCTCCAA CAAGCATGCG AGGCACTGT CCTCGGGGT ACAGACGCTG GTCCACATT CGCTACCACT  
CTGTTCACG NCATCCAGG TACACGAGCT GGTGTAGGC CGTGTCTCT TGGGCTCGA GGCTCTTCT GCTGGTCTC  
TTGGACGGG GGTAAATTC T

SEQ ID NO:1904: (Length of Sequence = 423 Nucleotides)

GTCTGTGGC CTGTCTGAA GTGACGGTGC AGCCAGGCTG CTCCTGCCC AGCAACCCG AAGCCATTGT GCTGGAAGTC  
GACTACAAGT NTGGGACCC GATGCAGAGT GCTGCAAAAG CCCATATCT GGCCAAGTTC AAGGTGAAGC GATGTGGAGT  
TAGTGAACCT GAAAAGAAG GTCTGCGGTG CCGTCAGAC TCTGAGGATG AGTGAGCAC GCAGGAGGCC GACGGCAGAA  
GATCTCTGG CAGGCAGCA TCTTCAAACT GGGAGACGAC TTCCGGCAGG ACATGCTGGC CTGCGAGATC ATCGACCTCT  
TTCAAGAACA TCTCCAGCT TGTGGGCTG GACCTCTTTG TTTTCCCTA CCGGTGGTG GCCACTGCCC CTGGGTTCGG  
GGTGATCGAG TGCATCCCCG ACT

SEQ ID NO:1905: (Length of Sequence = 370 Nucleotides)

CAGAACGAGA ACATTTTAC TCTTTGGGCT CTGGGAAGGG CCAGGCAGAG TGCAAGGTGT CCACAGGAGG GGTAAAGCAGA  
GAGGAGCTAC AGGGGGCTGC AGTCTAGTA CCTGTGGG GAGGACTGAG GGATGGTGG TTTGGTCTCC GGAGGGGGCT

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CCAGTCCTGG TGCCAGTTC TNACANCTGC CCTCCTGAG TTCACACTGG AGTCCTTGCA GTCCTGAAAC CACAAGGCCT  
 NOCTGAACCC TGGGTCAGGA GAGAAANACT TGGGGAGGGG AAAGGACGGC GTGGGCTACC CATKACGGCT CTGAGTTCTT  
 CCTGGGGCTT GTGTCTTTTC CTTGGCAGAA GAGGCGACAG CCAAAGGCAA

SEQ ID NO:1906: (Length of Sequence = 415 Nucleotides)

GTCACACCTT CATTCACTGA GGAAGAAATG CTTTCACTCT GGAATTACAG AGCATCCCAA TCTGACGTTG TACCCGTGTG  
 AACTGTGTTG TGAGCCCCAA GTTCAACGA GCTCTGCAA GTAAACGGAC ATTGTCACA TTTGTAGACA GCTGTCTTTC  
 CAGATAAGTG GATGTTTTCT ATGTGACGAG AGATGCTACG TCGATGCATG GTGAGGAAAG GACAAAAGGG GCACTGGAAC  
 CTATTTCATGA ATCINCTAAA TGGAATCCCC TTGGTCTCCA ATAATTGTTT GCCATCTGAG CCCATCAGCT GCTCTGCAGA  
 CAGGCCGTGAT GTCTGGTGAT CCACAGCACT TAAACCATTC TCACCTGTCT ATTTCAITTA ACTCTTCATC AGAACTAGAG  
 TCATTAGCAT GCTGT

SEQ ID NO:1907: (Length of Sequence = 214 Nucleotides)

TGAAATCCTG TACGTGTCAA CTTTGAAATG TATGTGTGTT GGTGGGTGG TGGTGATGTG ATACGGTTTG GATGTCTGTG  
 CCTCCAAAT CTCATGTTGA ACTATAATCC CCAATGTTCC AGTTGACGTG GTGTTTGGTT CCATGGCGGG GTACCCTAGG  
 GATTCATCTG TTTCTTCAC TTCCCTTTC ATCTGAGATC CTGCTGGAAA CCAC

SEQ ID NO:1908: (Length of Sequence = 410 Nucleotides)

CAGGAGAGCT GGGCAGATGT CCCAAGCCTG TNAGTGGCCC TCCCTGGTGC ACTGTCCCG AAACCCCTGC TTGGGAAGGG  
 AAGCTGTGG GTGGGCTAGG ACTGACCCCT GTGGTGTGTT TTTGGGTGGT GGCTGGAAAC AGCCCTCTCC CAGGTGGCAG  
 AGGCTCAGCC TGCTCCCTT CCTGGAGCG GCAGGGCGTG ACGGCCACAG GGTCTGCCC GTGCACGTTG TGCCAAGGTG  
 GTGGTGGCG GCGGGTAGGG GTGTGGGGC CGTCTTCTC CTGTTCTTT CTTTTCACCC TAGCCTGACT GGAAGCAGAA  
 AATGACCAA TCAGTATTTT TTTTAATGAA ATATTATTGC TGGAGGCGTN CCAGGCAAAG CCTGGCTGTA GTAGCGAGTG  
 ATCTGCGGGG

SEQ ID NO:1909: (Length of Sequence = 339 Nucleotides)

AAAAATAAAT CCAATTTTA TTAAGGATTT CAGGTACAT ACTTCAAATT TCTAGAATGG AATGGAATCA TTTTGGAACT  
 GGAAAAATGG CATAAACT GACGTCCCTT AAAACTTCAA TTTTATAAAG AAAATCTTC TGCAAACCAC ATCCCTTTA  
 TGTAACAAGA CTAGGTATTA TCTACACCTT CACTTGGCA ATAGCTATTT CCTAAAGAAT GAAAAAGATG ATTTTINCTAC  
 TTCAGTTTAT TAAAAATGG ATTCTATCTT TGAAGTTCAG AAAAGCTGC ATTTGATGA ACTATGGTT AAAAAA  
 GCACATAGTG TCTAATCAA

SEQ ID NO:1910: (Length of Sequence = 439 Nucleotides)

GGCCAGGGA GCACCAATCA CAGCAGGGC TCTGGCCAG GTGTGGCAG CCCAGGCCTC CATTGCTAA TGATTATAC  
 ACTGTTTGGG CTGGCCAGTT TTTCAATCAT GCAGCTGAC GATTGAGCAC AGTCAGGCTT TGTATTTAA AATGAAAAAT  
 GAAAAACAA ATTCAAAC TATTCAAATG GGTCTAGTT CAATTGTGTT AGTATAAATT GTCATAGCTG GTTACTGAA  
 AACAAACACA TTTAAATG GTTTACCTCA GATGACGTG CAGAAAAATG GGTGAAGGAT AAACCGTTGA GACGTGGCCC  
 CACTGGTAGG ATGTTCTCT TGTACTCGT GTGCTCCGAC CCATGGTGAC GATGACACAC CCTGGTGGG ATGCCGTGT  
 ATGTTGGTT AGCGTTGCT GCATTGTCTA GGAGTGAAC

SEQ ID NO:1911: (Length of Sequence = 342 Nucleotides)

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AATGCACCCA TTGGCTGCC AAGAGCTTCT CACTGCCTTG CTAGCAGCCT GCCACTGINC CCTGGCAAAT TGAAACCACC  
 CACGCAACA CTCAAAACC CAATCTCCTT GCTAATAAGA TACAACCACT TAACACCGTG AAAAATGCAC ATCTCCAGCC  
 TTCATTTCOA AAAAGAGCTC TGTACTAAAT GCAATATGCT TTAAAGGGG GTTTTACAGG GACCAATCTC AATGCAAAGA  
 CCACTACCAG ATGCTGAGT TTTGGTTACA GGTTCATAAT TAGACACAA ATTCACCTCA CACTGGAGTT TTACTTTCAA  
 GCTGGAGTTA GCATTAGTTC TA

SEQ ID NO:1912: (Length of Sequence = 380 Nucleotides)

TCAATGCTTTT AATACAACT TAAAAAATC TGGAACAATA GAACTGTAC AGATTTGATC AATCTTTTTC TTTTGTTTTT  
 AAATAAAAT CTCTAAACAC ACCAATGTCC CATTCACAAA TATTGCACAA CATTCTGAAT ACAAACCCCT TGATGTATT  
 CCTCCINCAC TAAAGAAAA AGTTCATGAC CCTGCTCCCC GGGCTCCTCT CCAGGCTTGC CTCAATGCCC CCTTCCCATC  
 CCTAGGGAGA AAATAAGAGA ATCTATAACT CACTGCATTG AGAAAAACAC ATCATTCTGG ACTAACAGTT TTCCATTCTT  
 CAGANGENTA ATCCACCTTT TGGATTTGTT CCTGGGGAAA GAGGGGTAGA TAGAGGGATG

SEQ ID NO:1913: (Length of Sequence = 361 Nucleotides)

GAGACAGAGT TTGCTCGTT GCCCAGGCTG GAGTGCAATG GGTGATCTC AGCTCACCAC AACCTCCACC TCCGGGGTTC  
 AAGCCATCTC CTGCTCCCG ACTCCCGAGT AGCTGAGATT ACAGGCAATG GCCACCACGC CCAGCTAAGG CTTTGTATTT  
 TNAGCAGAGA TGGGGTTTCA CCATGTTGGC CCGCTGGTC TCAAACCTCT GACATCACAT GATCCCCCG NCTCAGCCTC  
 CCAAGTGTCT GGGATTACCG GTGTGAGCCA CTGCOCTGGG CTCTCCAGTA CATTTTTTAGG GGGACGATCA ATGAGGATTC  
 TCTTCTCTGA GTTACTGCAT GTGTACAGT TTATAATCT T

SEQ ID NO:1914: (Length of Sequence = 409 Nucleotides)

GGGGGCCCTTA CAACTAGGTA TGGTGGATAT TGCCCGACAG ACGTTTGAAT TTCTCTACGA AGAGAATGGT GGCATCCCAA  
 GAGACCTTIA TCTTCCACC AITGAAGACA TTAAAGACA AGCAAACAAG TTCACAATTG ATAAAGTTTC AAAAGGTCTC  
 ACAGTAGTAA CCGCTCTCC AGACAGCAAT AATGTAGCCA GCAGTGTCTG TGGAACTGCT CTGCCAAAAT TTGCCATCCG  
 AGGGATGCTG AAAACCTTTG GGCTTCATGG AGTCGTCTTA GATGTTGATT CAGTGAATGA ACTGGTGCAG GTAGAAACGT  
 ACCTCCGACG TGAAGGTGTG CTGGTGGAT ACTGGTATC CTATTTGACA TGTGGGAAA GGGCCCCCAG CAGGCTACCG  
 AARGGACTT

SEQ ID NO:1915: (Length of Sequence = 402 Nucleotides)

ATGGTTTATA GCAGGAATAC TTGTTCTGAA TGACTTGGAG GGAAAGTGTG TGTGTATATG TGTGTGTGTG TGTGTGTAG  
 TTTTGTGAG GTAGGGGAGA CTATTTTTGT GGTTCAGTCA CTCCAATTAT TGCCACAATG CACTTTCCCT CATAACTGCC  
 CCACCAAAGG TCTTAAAGC CATTTTTTGA GCTTATTGCA CTGTGTTCTC CTACTGCAA TATTTTCATA TGGGAGGATG  
 GTTTTCTCTT CATGTAAGTC CTGGAAATG ATTCTAAGT GATGTTCTTA GCACTTTAAT TCCTGTCAA TTTTTTTGGT  
 CTCCCCCTCT GCCATCTTAA ATGGTAAGCT GAAACCTGGG NCTACTGTGG CTCTAGGGGG TAAGCCCCAA AGGCCAAAA  
 AA

SEQ ID NO:1916: (Length of Sequence = 382 Nucleotides)

GAAATGAGAC TTATTCTGA AATTATTAAA AAGAACAGAG ATGCTCCATT TGGCTGCATG CAGGGGGGGC GGTGGGGGG  
 ACAGAGGGGA GGACAGGGG TCAGCCAGGG GGACCGTGC TCTTCCAC GCAGGACACT GTGCATGGGG CTCTGGGTGC  
 ATCTGGCAT CTGTCTATGG GCGTGTGTGT GTTGTGAGG CCAACACAG ACAGCTCCGT GGTCTGTGT GTATCCAGT  
 GCTAAAGGC AGGCTGGCTT TCTGGGGGCC ACAGCTGGCG GGCTAGTATC CTGGAAGGTT TCACTTGGTG GCTTGGCCTA

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GGGACCAGCA AGGGCTTGGN GTTGAAGGG GTGGCTCAAG GAAGCCTCTT TCTCCACTCA CA

SEQ ID NO:1917: (Length of Sequence = 375 Nucleotides)

GAGATTAAAA TAAACAACAC AAAATGTATT TAAATGAGAA ATTGAAATAT TAAAAATAAT ATTAGGTGAC ATTAAAACTG  
 TCATAGAAAT AAACGTGATA TACAACAAAT AAATCAATGA TTGTTAACTT TTTTAGACAG TTTGAATATC AGATTATAAT  
 GAATAGCATT ATTAGCCAGT AAAAAGAGCA TATAAATTAT TTTAAAATTC CAAATAAAAA TATTTAAAT TTTGAAATTT  
 TGGACCCAAA ATTATGTCAG TAATTTTCATG AAAGTAGATC TCCAATAGGT CCTATATTCT AGACACTATG AAATGACATC  
 AGAAACCGTC AATTAAAGTG TACCCACAA GTGATACTA GCTACCATAC AAGTT

SEQ ID NO:1918: (Length of Sequence = 315 Nucleotides)

AATATACAGT ATGATACACT GATGTGCAGA ATGTGATTAG TTTATTAATC ATATGTGAAA ATATTAGTAG CTACATATGG  
 CCAGAATAGA TTTTYCTCTC TACAAATGTA AGTTAGTGTT GATAGAATTT GTTATGCGAT ATTTGGTTCT TTGGTTTCAG  
 TCTCAATGCT TTCTCTTGG CATTTCAITG ACTCTGTAAA TTAACCTCAG CATCAATTTT CTTTTAAATT CAACAGTTAT  
 TCAAATTGAT CGGAAATTAA ACTTGTATGT AGCTAGTTAT CACTTTGGGG GTACACTTTA ATTGACGGGG TTCTG

SEQ ID NO:1919: (Length of Sequence = 285 Nucleotides)

CAGAAGTAAA AGATTTTTAT TGTCTATAG ACACITCTGA AAAGAGATCT AATTGAGAAA ATATACAAAG CATTTAAGAG  
 TTTTCATCCC AGAGACTGAC TGAAGGCGTT ACAGCCCTCC TCTCCAAGGC TCAGGGCTGA GAACGGTAG CATATCGAAT  
 GATCAGTAAA AACATGCAAA AGTENGAGG AAAGGGAAAA AGGTGCATC CCTAAGCTG AGGGGGNTGG AATTTTCAGAA  
 CAGAGGWGC AGGGTGGACA AGTACCAGGT GGCTCTCCCT TTCCC

SEQ ID NO:1920: (Length of Sequence = 181 Nucleotides)

GCAGGTTTAT TTTTTATT ATGTATTINA ACTGACTTAT TTKGTATCC CACTAGAACA ATACATTCAC AATATACTTG  
 CAGAACTKTG CCTGGSGCAT CAGGGGAGCA GAGAACTTTT CCAGTGAATA GTTTTGAAG AAAGGAGTAA AATCTCCCC  
 AAACCTTAAA GGCATCCTTT T

SEQ ID NO:1921: (Length of Sequence = 351 Nucleotides)

AGACGGGGTC TCACTCTKTC GCCAGGCTG GAGTGCACTG GCGCAATCTC AGCTCACCGC AACCTCCGCC TCCCAGGTTA  
 AAACGACTCT MATGCCCTCAG GCTCCGAGC AGCTGGGACC ACAGGCACAT GCCATCATGC CCGGCCAACC TTCTGTACTT  
 TTWAGTAGAG ACGGGGTTTT ACTGTGCCAC ACAGCTGGT CCCGAATCC CGAOCCTCAG CGATCAGCTR CCTCAGCCTC  
 TCAAAGTGCT GGGATCACAG ACGTAAACCA CCATGCGGGG CCCAGTCTT TTCTTCAGAG GGCTCCTNAG CACCCCCAAC  
 CCCAAACCTG AGGCTGTGA GAGTCIATCC G

SEQ ID NO:1922: (Length of Sequence = 198 Nucleotides)

CCTCATCTGG ACACAGATGA TTGCCAAAG AAGCGGCTG CCCAGATCTG CAAACCTTGC AACCCAGCAC TCTTGCATAT  
 CTCGCTTAGC GTGTCCACAA CTGGGATGCT AGCTGGCGTA AAGATGCTCA CGCAGCCACC AGTGCTCTG CCGTCCATAA  
 GTGCAGTGTG ACTTACCCTC TGAGAGTGGC ATCTGCTG

SEQ ID NO:1923: (Length of Sequence = 303 Nucleotides)

TTGATTGGC TATGGTGTGA AATCCTTTGT TATTTTCTA AAAAAATAA ATTTAAAAAG AAAGAAAACT AAGGAAGAAC  
 AAGANGCTAT TTACCCAAAG TGAGCTTACA GTTTTAGITT TGCATGGCTG TTTGACTGCC TTTCCGCCCT ATGAAAATCA  
 AGAAAATCTT TTTTAAAAAT GGAGTCTGCT TATTTTCCAC TCCTTGCAGA TAATACAAAT TCAGTTTGTG AGGTGGATG

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GTGAGTGGG AGCTGTGATG GATCTGTGG CGGGTTTGG ATGTGTAAAG AATGATATAT ATA

SEQ ID NO:1924: (Length of Sequence = 231 Nucleotides)

GTCTCCCTG ATTCTCAACC TTGCAACCT GCCTTCGTC ACTGCTAGGT CCAOGTAGGC TTAACCTTGA TCTTATATGT  
AGGACCGGTC TTCACCTTAA GCAAGAGAAA TGTAAGAAAT GNTTCCCAA CTCAGTGTCT GSCCCAGCTT TGGCCTGTG  
TTCCCTTCT GAGGACTGAC CTTTGGTATT GCTCTGGAGT CTCATATCCC CTTTGGCCCT AACTGACCAC G

SEQ ID NO:1925: (Length of Sequence = 249 Nucleotides)

GTTTTACTT AACCATCTA TGTGTGGAA TTGGGTTCC ACTTTTNT TATAGATAGT GGTGCAGTGA ACATTTTAA  
ATAGCTTTT NCTTCAGTGT AATTATTTCC NTAGAGAAAG TTACCAAGAG TGGTTTACT AGTTCAGAGG GCCTCAGGAT  
TTTATGGCT CTCTCTAGCG GTGCTCTATT ATCTTNAGA AGACTTGTAT TACTTCCAGT GTCAAGAAGG TTGCNCTTC  
ATGGAATGG

SEQ ID NO:1926: (Length of Sequence = 367 Nucleotides)

TTTTCTCAG CAAGGAACAG TCATGAGAAA GAGAATGCGT TCCTAGGGGG AGGTCTCTAA AATGGCCACT CTGGGACTGT  
CTGTCTTATA TGGTGTGGA TAAGGGATGA AATAAACCCC GGTCTCCCTT AGCGCTCCA GGCCTATTAG GACGAGGAAA  
TTCCCGCCTA GTAAATTTTA GTCAGACTGG TTGTCTGTTT TCAAACCCCTG TCTCTGATA AGATGTTATC GATGACAATG  
CATGCCTGAA ACCTCATTAG CAATTTAAT TTGCCCCGT GCTCTGCCAT TTGCCCTGTG ATATTTTATT GCCTGTGAA  
GTATGTGATC TCTGTGACCA CAACCTATTC GTACANTTCC TCCCCCT

SEQ ID NO:1927: (Length of Sequence = 231 Nucleotides)

CTTTTATGG GGGCGGATAC CGCAAGGGCC CGCCACGGT CAGGTAGTG TTCTGCTCTT GCAGAGGGCC KACAGCCTGA  
CACCTCCACC TGCCACCGC CGGGGGTAG TGAACATGC AAAGCTCAGA GGGTGGAGGC AGGGGTGGTC GCTGCTGAGA  
CCAGGGCTGN GTGCAACAGG AGGGTCAGCA CAGAGCCTGG CTGTGTCCC TGGGCCAAA GGGGGCTGG G

SEQ ID NO:1928: (Length of Sequence = 283 Nucleotides)

CCCTTGCTT CCCTGAGCC CAGGTATGTA ATTCTACAC ACCTGATCG AGCTGTGNTG TGTGTGATA TGTGTGTGTG  
TGTGTGINTT AATGTGACAT GCATGACTG ATCNGAGAA GCCTTTATAC CAAGAATAGA GCTGGGATCT CAAGCCACC  
CTCCAAGAT CAGACAGCAG AGTGAACAG GAGGCCAGA CAGGCCTGTG GTCARATGGC AGACNTGCA GCAGGAAGCA  
GAACACGGG ACGGGGRNCA TGGGATGCTA TKGCAGCCA GCT

SEQ ID NO:1929: (Length of Sequence = 287 Nucleotides)

CTAGGAAGTA GGGAGAGAAT TTAATAAGTA AGGAGAGAAA GGAAAAAGAA CAAACATGGA ATATGNTCAA GCAAATAACT  
TCCAACAGAA ACAAGANGAT ATGTTTAAAT ATATATTTCC CTGCCCCAAT AGTAAACTT ATTTCAAGCA CAATGCATTA  
CTGAGGTGAA ATTAAAGTTA CATAAAATTG AAAACATCAC ACTGGANAAC ATTTCAATGG GCTCAACTGA AGGTGGCATA  
GTCCAGGAAG GCATTGGAC ATGTATGGG TGTTCCTTG TTGCCCC

SEQ ID NO:1930: (Length of Sequence = 357 Nucleotides)

ATGGAACACT ACTGCAACAG CTCCACAGAC CGGGGGTTC TGCTCATGTT CCTGGACATC TGTTCAGAGC TGAATAAGCT  
CTGCTGAC TTTGAGGCG TGCATCTGG CACCCGCTC ACPACAAAT TCTGCTTAA ATGTAAGT CTCTTATGCT  
AAAGCAACGA CTTAAGCAGC CTCAGAGCAA AATACCTCA TGATGTGGT AACCACCTCA GCTGTACGA GGCCCGAAC

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ACCCTAAATA TATGGTACCT CAACAAATAA CTAAAGATT TCCGTGTGGC GTGAACCATT TCAATTGAA CTAATATCCT  
TGAAAAAAT CACATTATTA CAAGTTTAA TAAATACAGT AGAGAGCTGG CATTITTCTA AATACTGGAT TTCAGATCTG  
G

SEQ ID NO:1943: (Length of Sequence = 351 Nucleotides)

CAACTCAGGT TAGCAACTGC AGGAAACTT TCTTCATTTT CACTGAATTT TAAAGAGAGA ATCCTGTCTC TATTCTCAG  
AGAACTTAG GTGAAAAGTA AAAGAGAGGC AAAATCTCTT TCCATCATGA GATACTTTTA TTTTATCTC TTTCTCTACT  
CATGTGCTTA ACTGGTGAAA TGATTCTGTA GAAATAGATC CTTCTGATTC TGCATCTCAT TTCTTATGG CAACTACAAC  
AGGAGGAATC CAGCTGAAA TGCCACTAAC CCCACATCCA GCACCTGAGA GAGGAAGCCA GTCGGAGCGC CGTGTGCGG  
TCACTCACTC TGGCCTGCGC ACTGGGGTTG T

SEQ ID NO:1944: (Length of Sequence = 406 Nucleotides)

CCCCAGGCTG TCTCAGAATC TTGATGGGGT GGTCAATGAG CTCTCTTCC GCCAGAGCAA GATCAGTGAA GTCCTGGGAG  
GCACTGGCTA CAACTCGGAC CGGCTCTGCC TGCCCTACAT TCCTCAGCTG ACAGATGAGG ATCGTTTATC CAAGAGGAGG  
AGCATTGGAG AGAACATCTT CCCTGAGGAT CCCGAGGATG GTCTGGTGAA GACCAACATG GAGAAGCTGA CCTTCTATGC  
CCTCTTAGCT TCAGAAAAC TTGATCGTAT TGGCGCTAC CTCTTTGAGA GGCTCATCCG TGACGTGGGT CGNCATCGAT  
ATGGGTACGT GTGCATTGCT ATGGAGGCTT TGGACAGCT GCTCATGGCC TGCCACTGCC AGAGCATCAA CCTCTTCGTG  
GAGAGC

SEQ ID NO:1945: (Length of Sequence = 362 Nucleotides)

TCAATTGTG AAATINAGAA TTCTGCTATG ACAAGTGGA AATTGAGAAA AGACGCAGAG CCACITTTTG TNATCGTGA  
GGTGACAAGG AGTCTCCCAA GTATATCTG CTAAATAGGAG TAGCTCTCAA AAGTTAATCT CAATAAAGCC TCCTAAAGTC  
TCTGGCAAAG AAAACTGCTG CAATCCCTTG TGCAATTCTC CAGACTAAGC TGTATGGGG AAGCCTACCT TTTTTCAGCC  
CGAAGTTCAG GAGACTGAGG ATGTAAGTGG GGACATGATC ATTGNTTCAA AGGTGATTGC TTAAGTATCT TAAAAATGTA  
TAGAGCTAAT CTGAGTACCG CTAAATTC AAGACCGTGG CT

SEQ ID NO:1946: (Length of Sequence = 408 Nucleotides)

AACTCTINAC CCCCAGGTTT AAGCAGTCTT CCCACCTCAG CCTCCCGGGT AACTGTTCTT TGTAACCTCTC TCATCATCGA  
GGCTATATAT TAATAGACAT GGTATTAAGC CCACACGAAA CATTGAGAAT TAGAATTGGA TTAAGAAGAC GCGTTTTGGC  
ATCAGCTGA CTACTCTCA TCTCGTCTT CCGGGAGGGT GATGCCAGCG TGGGACTCTT TGGAGGGCCT ATCAATCACA  
GGTGGCTAA AATCAAAAGG TGGGTGAGTA GGTTAGGGAG GGNGCGCGA AAGGAGATGC CAGCGGGTGT TAAGAAGGAT  
ATGTCAGAA GAGCTCTTTG TCTCCATCCA CCGGGCTCT GCTCAGCCCG TGTGTCTCG GTGAGTAATT CCGGAGCAGT  
GCAAGGCT

SEQ ID NO:1947: (Length of Sequence = 426 Nucleotides)

CCATTGACA CTGTTACTAT CTGCAACAGT TCTTCAGTA GAGGATGCAC TTCAAAGTGC ACTGCTTTAC TGTCTCACTG  
GAATCTAAA AATCTAAGCT TTATCTTTT AACATTAAGC TGTGTGGGAA TGTAGCAACC TCCTGGGTGG TGGGGTGGG  
GGCATCTCA ATTATTTAGG TCTCACTGGA AAGTTGAGA TCAGAGTTTG GTAGGTGGTG TAAGGGGACA ATGAGTAAGG  
GAGAGAAAAT ACAGGACTGA CTTGGGCAAA AAAAGCCTG ATAATAATTT GTGAAGCAC TTTTCAAAT CATTATTCC  
TTACAAGGAT CCTAAGAGGC GGTATTATG TCNGGTTAT ACCTGGAGGC TTAAATTGAA GGAACATCTT CAAGGGCACA  
CAGTTAATG AATGGCTGAG GTAGGA

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SEQ ID NO:1948: (Length of Sequence = 349 Nucleotides)

TTACAATCTG GCTGGAAACA GATAATTAGA ACATATCAG AGAAACAGAA CAGTTAAGTG CCAAGCTCTG GTGGAGGTTT  
 TAAGTGCCAG AGGTCAGGAT ATATTTTTTAA GTGCTTCTGC TTCCAAACAT CACTCTTTCA AAACAAAACA CAAAGATCCC  
 CAACCAGCAT TTCTGCCCCC TGAGGCACCA GCAAGGTATA TAAAGGGCT TGCAAAGTTT GATATACGGT CTCCAGCCTG  
 GCTTTCTTTA GTCTGGGCTC AAAAGCCAGA AACCTCTGGG GGCCAGAGAA GCGCTCTTTG TTTGCCAAAC AGCATTTCTG  
 CACATCCTGT TCTACAGCAC CGTCAGTTT

SEQ ID NO:1949: (Length of Sequence = 378 Nucleotides)

TTCAATCCTG ATTTTATCCC AGCTGTGGG GATATTGATG CATCTTTAAA GGTOCCAGT CCTGATGGAA AGCCTGACAA  
 CCTTGGCCTA TTGGTATTGG ATGAACCTTC TACAAAGCAG TCAGACCCTA CGTGCTCTC ACTCTGGTTA ACAGAGAAIT  
 CTAAGCAGCA CAACATCACA CAACATATGA AAGTAAAAAG CCTAGAAGAT GCAGAAAAGA ATCCCAAAGC CATTGACAGG  
 TGGATTGAGA GCATCTCTGA ATTACACCGT TCTAAGCCCC CTGCGACTGT GCACTACACC AGGGCCATGC CCGACATTGA  
 CACGCTGATG CAGGAATGGT NCCCGGAGTT TGAAGAGCTT TTGGGCAAGG TAAGCCTG

SEQ ID NO:1950: (Length of Sequence = 357 Nucleotides)

TCACTAATCT TACGAATGAA AGAAAACAAT TCATCCCTC TCACAAAAG GACATCTTTT AAGCTTTCTT CCCAATCTAA  
 CCTCCATGGG ATCTCAGAAA TTCCAATCTT TATAACTCAA ATCCCCACAG TGGTGTAGAT GCATTAATCTC CCGGGGACA  
 GCAATCTGAG GCAGGCAGGT TCATTAAACA AACATGTTCT GTGCCCTCTG GCAGAGAGGG CAGCAGGACA TGCACTGCCC  
 CTGAGCCAAG CTGTGGCATG GGCAAGGACA TCAAGTAGCT GACAAAGGTC TGTCCATCTC AGCTGGGGCA GAGGGGCCAG  
 TTCAGCCTTG AACAGCAGT TNGGGAGTGT CTCAGCT

SEQ ID NO:1951: (Length of Sequence = 336 Nucleotides)

CTATCTCCCC AAATCTAGT TTCACCAITT GTACTGTAT TTTTTTAGCC CAAGCCACCT TTATGTCACT CCTGGAACAT  
 AATAACTGCT TTCTCACTCA TCTCTACAT TTINACCTCT TATAATACAG TCCACCTGT ACCGAGCAAC AAGAGTTATC  
 TTTCTGAAAT GCATATTAGA TCATGTACA TCCTACTTG AAGCTCTCTA AAGATTCTC ACTAAAAGCG AAGTCTAAAA  
 TTTCCACCCA GACCTATAAG GNCCTTAAAT GATCTTACCT CTCTACCTAC CTCINOGATC TTACCTATCT TCAACCTCGG  
 TTCTATTTTC TATATC

SEQ ID NO:1952: (Length of Sequence = 413 Nucleotides)

CAGTATGTAA TTTAATCAGC AAATGCCCCA TTTCATCTC TACCGGAAAG CTTTCAGAGC CATTOCCAGA TCAGACAGAG  
 GACTAGGGTT AAGGCTGGGA ATGAAACACC AGCTAGTATC CCAGTGAGCT TTCCCAACA CACATACACA GCAAGTCAGA  
 CTAAACAACG TCCAACIGAA GACTCACCTC AAATACTTAG ACCTAAGATT CAGTCCAGG CTCITTCAGA TACACCAGGT  
 AAGTAAGCAC TTGGCATTCC TATCTAGCC ATTCACTTCA CAGAATCTTT TGGGTGCTA CTGTGTGCCC AATACTGTGC  
 TTAGTGTAC TTGCCCTCAG CAGGAAAAA AATTAAAGT GTTAAATGTT ATGAAGGAAC AGATTGATAT AGGAATCACA  
 AGGCATTGAG GTC

SEQ ID NO:1953: (Length of Sequence = 382 Nucleotides)

GTTTCACTCT TGTTGCCAG GCTAGAATGC AGTGGGATC TTGGCTCACT GTAACTCTG CCTCCCGGT TCAAGTGATT  
 CTCTGCTC AGCTCCCTA GTAGCTGGGA CTATAGGTGC ATGCTGCCAC ACCAGCTAA TTTTTTTGTA TTTTAGTAG  
 AACACCGTT TCGACATATT GCGCAGGCTG GTCTCTACG CCGTACTCA ATGATCTGC GACTTAGGT CTCTAAAT  
 GCTGGGATTG CTGGCCTGAG CCACCGCACC CTGCCTAGAA CATGCTTTTIN AATAGTGTCT CTAACCATCA TGTTTAGGGC

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CITAGTGCTT ACCTCTTAAA GAAGGGCTGC TGTTGAGGAT TCCNTGAGAT AGTGTTTGAA AA

SEQ ID NO:1954: (Length of Sequence = 389 Nucleotides)

GGAAAAGCGG GACCCAAACA GTGGTGCTGG GGAAATTGTG TCCTGTTCCTC TTGGAAGGC TGAGTGGGTG ATGCAGCACA  
 GGAACAAGGC TTGGACGTCA GAGGTCTCAT CTTCACTGTG ACAAAGCATA AAGGACTTGG GGTGAGCGT GTGINTGGGC  
 TCAAGTGACC ATGCAAGTNC TGTCACCTCC TTCCTAAGAC CCCATCCTTC TCCCAAGTCC TCCACAAGAG CTACCTCTTT  
 CAAAACAATA ACAGAAACAC ATCAAGNTIN GCGTCACTGA AATTGAAGTT CTGAATCTCG CCGTCACCCC AGCAACAGTG  
 CCAGTTATGA TGAGACACTT GACCCAGCAC TTGGGTTGAT GTCTTTGGCT GTTACCGTGG CACCTAGGT

SEQ ID NO:1955: (Length of Sequence = 277 Nucleotides)

GCCTCTAACT CCACGGCTCA AGTAATCCTC CTGCCTCAGC CTCCTAAGTA GCTAGGACTA CAGGTGCACA CCACCACACC  
 CAGCTAATTT TTTTNCITTT TGATTTTGG TAGAGATAAG GTCTACTAT GTTGCCAGG CTGGTCTGAA ACTCCTGGCC  
 TCAAGTGATC TGCTTAGCC TTCGAGTAG CTAGAAGTAG TTITAATGAC CNAAGAATT ATGTGTCAC CNGTGATTTT  
 ATGTGTTTG TTAAGACATT CAGAATTTAG AGAAATG

SEQ ID NO:1956: (Length of Sequence = 380 Nucleotides)

GTGTAATGTT CTGAGGGTGG CGAATGCAGG GCGCGTTC TCCCGTGTG GATCTGGAAC ATCTTCTGCG CAACAAAGAG  
 CAGGGTGAAG ATGAGGGCAA GCTGGTAGAC AGCATGGCCC AGGATGTTCT TCATCATGGT CCTGGAGATG AGCGGCTTGT  
 TGCGGCCGTA CGGTTTCTC AGCAGCAGG TCTCGTGGG CGGCTCAGTG GCCAGTGCCA GCNAGGCAA CGTGTCATG  
 ATGAGGTICA CCCAGAGCAT CTGCACGGCC TTCAGAGGG AGTCCTGCGT GATGCAGGCG CCTNTAAAGC CACAATCAG  
 GCCACCAGT TGACGGTGAA GCTGGAACCT CAAGAATTN GAGATGCTGT CATAGACGTT

SEQ ID NO:1957: (Length of Sequence = 328 Nucleotides)

TGTGATGTT CTTTTTAGC CTGTTGATG GTGAATTGT ACTGATTGAT ATTTGAATAT TAACTGGCT TTGCATCCCT  
 AGAATATACC TCACCAGTCT ACTGTGACT AGGTGGTGC AAAAGTGCTT GCCATTTTGG ACCATGAATT TTGAATCATT  
 AAACTAGGC TCAACACAT CTGTATTAA CAAAGTAAGA ACCATTACAA TCAACACAAT TTGCCAACA AGAAATAAGT  
 TTGTTTACTC CTGTAGCATA AAAATCCGTG CTTTGAGATT CGAGGAACCT TTGGNAAGCA CTTTCTGCAT CCGTCTGGT  
 GTGGAAGC

SEQ ID NO:1958: (Length of Sequence = 254 Nucleotides)

CTAGAAAGTA TCTTCTCTT ATTTAAGTTA AACAAATTTT AAGGATGGTT TCCATCTATA AAATGGACAA AGTACAAGCT  
 CTGTACAGCA GTTCTTTTAA AAAATCAACT GGAAAAAAA ATTACCAAC TATATTTTGA ATTTGCAAAA CATACTACA  
 GATACCATCA TCTGAGCTTT TATGAGNCA TAAGAAAGN CCACCACAGA GAAGACAAC AACTTCGGCA CGCTTGCTC  
 GAAGGGCTCT TAGG

SEQ ID NO:1959: (Length of Sequence = 259 Nucleotides)

GTAATACGAG AAAAATCACA ACAGAGTAAT AAGATATAA AACTTTCACA ATTAACACTC ATCAGTGTGA TAACTAAGC  
 CCATGTAAAA GTAAAAATCT CTCACAGTTA ACRAACGTCT TTACTTTTAC TAAGAAGGAA CTGAAATTAA AGTCTTAGT  
 CACTTGGAG GTGGCTGCAA AAGCTCACAA CATAGTTGAT CCTTAAATA ATATGAAAG GCAACCAAGT CTGCCTTTCT  
 CTACTCAACC ATGCAACTG

SEQ ID NO:1960: (Length of Sequence = 329 Nucleotides)



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GACTACAGGT GTGCCCCACG ATGCTGGCT AATTTTAAAG GTTTTGTAG AGATGGGGTC TTCCTATCTT GCACAGACTG  
 GTGTGGAAIT CTTAGCTCAA GCAATTTTCC TGCTCAGCC TCACAAAGTG CTGGTATTAC CCGTGTGAGC CACCGTGCTC  
 AGCCAGTCA TGTATTTCTA ATTATGTAT TTGTGAAC TAATCTGAAC AACAAAAACA AACAAACAAA CAAAAAGGGT  
 GGCATTTCTG GGCCACCAGG GAAGGTGGGA TTGGGGTTGC AGCTATTTTC AAATTATATT AAAAGCAGGA TCCAGTTAG  
 AGCGCTATC

SEQ ID NO:1961: (Length of Sequence = 282 Nucleotides)

ATCTCCCCAC CTCAGCTTCC CAAAGTGGTG AGATTACAGG NTCAGCCAT CGCACCAGC CCAATTATTC TTCTTAAACC  
 ATTTCTCTT CTGTGTTCAT GCCTTTAAAA ATAAATTAA AAAAAAATA AAAAAAATC CTTAAATTT CTCAGGTGTT  
 TTCCATATCA TTTTATTATC AAGAATATGG CTAATCAGAA GTCACAGCCA GCCCCGAC TACAACATA AACATGCAT  
 ATTATAGGCT AACTGAGGG ATTCTGAGG TTACGAGTG CA

SEQ ID NO:1962: (Length of Sequence = 328 Nucleotides)

TGCTGGTGT CCGCTGTCA TCTCAGGAG GCCAAATCAG TCCAGCCTC TCCACCATC TTCCTGCAG CGATTTCTTC  
 GAGCTCGAAA CATCTCTGGC GTGTCTCTGG CTGACCACTC TGGTGCCTTC CATAACAAAT ATTACCAGAG TATTACGAC  
 ACTGCTGAGA ACATTAAATG GAGCTATCCC GAATGGCTGA GGCCTGAAGA GGACCTGAAC TTGTGAACAG AACTGCCAA  
 GGCCCTGGCA GATGTGGCCA CGGTGCTGG ACCTGCTCTG TATGAGCTG CAGGAGGAAC CAACTTCAGC GACACAGTTC  
 AGGCTGAT

SEQ ID NO:1963: (Length of Sequence = 277 Nucleotides)

CCAAGAGACA CCCCCGCAC TCTGTGCCC GAGCTGTCTC ATCTGTGATT CACAGTCTGC TCTTCTGGC TGCTGTCTG  
 GAGAAGTGAT TTNAACCCC GAGGTAGAA AGGGAGCTAT TTTTGTGCTG CTTTTGTGA AAAGGCAAT TTCTGCTGG  
 GGACTGGCTT TACCCGCTT ACCTAAATCA TTTCTACTG CCTCTGTAA CAGTCGCTT TTGTGTTCTG CTGNNATTG  
 TTGAACACA GTCCACAGGT TCAGTGGTIN CATCTCT

SEQ ID NO:1964: (Length of Sequence = 230 Nucleotides)

CAATGCAACC TTITAATCC AAGCAGATC CCCCTCCCC AGCATGGTCA CACACAGT GGAAAGGGAT GTCAGGGTCT  
 GGGCAGGAGC AATACCCAGA CTTGGGCAA AATATAGATA TCATTATATA CACAGTGA CTGGAAAGAA GTCAAGCTGG  
 GGGTGTAGG TAGGGCAGG GCAGGTGAG AAAGCAGCTG GGGGGCCCC AATAAATTAC ATTCTTGAGA

SEQ ID NO:1965: (Length of Sequence = 299 Nucleotides)

CGCCGTGGAT CCGAGAAGG CACAGCAGAT GCGCTCCAG GTGCATACC ACCTTCAAGT GATTGAGGAG AGGGTGAATC  
 AGAGCCTGGG CCGCTTGAC CAGAACCCC ACCTGGCTCA GGAGCTGGG CCCCAAATCC AGGAACCTCT CCACTCTGAA  
 CACCTGGGTC CAGTGAATT GGAAGCCCT GGCCTGGG GCAGCAGCA GGACAAGGT GGGCTGCAGC CTCAGATTC  
 CAAGGATGCA GACACCCCA TGACCTTCC AAAAGGTCC ACAGAACAAG ATGCTNCAT

SEQ ID NO:1966: (Length of Sequence = 320 Nucleotides)

GTCCCTGCAC ATGCGTCTGG CAAGACGGT CAGCTTTGTG GTCTGAAGCA GGAAAGTTG TCTGNTTA GCCAGTAGCT  
 TGGCCCTGTT GCGCTGGT GTGTAGGAG AGAGACTTTG AGCTTCAGT CTGGATAAT NACCCCTGA GTGTGGCTCC  
 GTGTGGCTC GAGTGGCCC CTGAGCTGA GTGGGCTT TACTGCTTC AACTTCTTC CAGTAGATTC AATGGGACT  
 ACAGAGGCGG CACTGCATGT TAGGTGGGCC CCAGGCATAC CACTGAGCAG ACTGTGTGGT GTGGCACTC TCACAAGTCA

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SEQ ID NO:1967: (Length of Sequence = 296 Nucleotides)

GCTCTGCTGG CGTGTCAGAA GCTCATGGTG CACAACCTGG AATACCTTGG CAAGCAGCTC CAGTCCGAGC AGCCCCAGAC  
 CGCTGCCGCC CGAAGCTAAG CCTGCCTCTG GCCTTCCCTT CCGCCTCAAT GCAGAACCAG TAGTGGGAGC ACTGTGTTTA  
 GAGTTAAGAG TGAACACTGT TTGATTTTAC TTGGAATTTT CTCTGTTATA TAGCTTTTCC CAATGCTAAT TTCCAAACAA  
 CAACAACAAA ATAACATGTT TGCCTGTTAA GTGTATATAA AGTAGGTGAT TCTGTA

SEQ ID NO:1968: (Length of Sequence = 311 Nucleotides)

ACCCCTTCA CTCCTCCCA CCAGCTCTGC AGCCAGCCTA TGGCAATTAT ATTTTAAGAG GTGTTCCAG GACTTTTGGG  
 ACCTACTAAA ACAATGATGG TTATTTTAGA TGTGATGATT TATATTTATG TAGAGATATT TCTGGACCAC TCAAGCTCTT  
 CGATACCAA ATCAGGAGCA TCTGGGATT TATTAATAA TGTAAAGA TAGCACAGAT ATCGGGATAT TATTGTGTGA  
 AAATGCTGCT TTTACTTTGA TGTGATCTCA TTGATGTACA CAACCAAGTT CCAATAAAGT GCTAGAATGT G

SEQ ID NO:1969: (Length of Sequence = 266 Nucleotides)

CAATAATAAA AAGGATTATA TTCTGATAC ATGCAATATG GGTGAACCGT AAAAATATCA TGCTGAGCAA GAGAAGCCAA  
 ACACAAGAGA ACATGTTGTT ATGATTTTAC GTACATGAAA CTTTAGTAAA GACAAGTCTA ATCCATAGTG ACAGAAAGCA  
 AATCAGTAAC TGCTGACAGG GGCAAATGAG GNGATGATCT CAAGGGAACC TTCTGGGGTA AGACGCTGTT CTGTATCTCG  
 ATCGNATTGG TGGTCACACA AGTGAA

SEQ ID NO:1970: (Length of Sequence = 317 Nucleotides)

CTCGGGAGGC TGAGGCAGAA GAATGGGTG AGGCCAGGAG GCGGAGGTG CAGTGAGCCA AGATTGCGCC ATTGTACTCC  
 AGCCTGGGCC ACAAGATTGA AACTTCATCT CGGGGAAAA AAAAATGAGC TAAATACAAG AGATGGTAAT GCAGGAAATG  
 AGAGAGAAAG AAGCTATAGA ATGCACCATC AGTCTTTGCT GAGAGGAGAA GCTAGGACAC TTATGCGCAT GTNCCTGTCT  
 GCCTTCCTTC CCGTCCCGCG GATGGTTGGA GCAGGTCTTT GTTGTCTGCA GAGCATGCCA TGTCATCCTC CTGTGCT

SEQ ID NO:1971: (Length of Sequence = 263 Nucleotides)

GTGCATACTG CTGAGGCGGC TACGCTGGCA GGTAAAGCAA AAGAAGCACC CCAGCCTAAG TTACAGAGA ACCAGGACAT  
 CATTTTGAAT ATAACTTAGT TCTAATAGTC AAATGGCCAC TCAAGGTGAC AAATAGGAAC TTCAGTGGTC ACCCCTCGGA  
 AGCAAGCTTT CAATGTCCCC CACCTGTAGA AGGCTGAAAA ACATCCTCCA AAGATAACAG GTTCCAATCA CTGGAACCTG  
 TATTACTTAT TACCATTAAA TAT

SEQ ID NO:1972: (Length of Sequence = 295 Nucleotides)

GACAAAGAAA GCAGAATAAT TTTACCTGAG AAGAAACCAG GAGGCTTCTT CTCTCTCTC TCCTCTTTT TTTTTTTTTT  
 TTTTGTACTA TACAGAAGAA AACTATCAGA GTTAGGTAG AGAGTTGGGT TTGGGGTCAG GTGTAGCAT GTGTTATATT  
 ATGGGTAAAA TTGTGTCCTC CCCAAAATTA ATATGTTGAA GTCTTAACTC CCTGTACCTC AGAATGTGAC CNCATGGGGA  
 AATAAGGTCA TTGCAATATA ATTAGGTAAA ATAAGGTCAT ACTAGAAGAG GGTAG

SEQ ID NO:1973: (Length of Sequence = 243 Nucleotides)

AGACCGCAGT CATCTCAGC ACTACAGCA GGCAATNNC AAGCTGACCG CAATGCTCAT TAGCAGTAAA GATTGTINACC  
 CGCAGCTCCT TCATCATCTG TCTGGGGTC CCTCCGGAT GTTCAATGAG CATGGCATGG AGACGGCCCT GGCTGTGG  
 GAGTGGCTG TGGCTGGCAA GGATGCAGT GAGGTGCGT TATGCGGGA GATGGCAGG GCTGGCACA TGAAGGTGCG  
 GCA

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SEQ ID NO:1974: (Length of Sequence = 304 Nucleotides)

GGATGAGATG ATCGACGTCA TCGGGGTGAC CAAGGGCAAA GGCTACAAAG GGGTCACCAG TCGTTGGCAC ACCAAGAAGC  
TGCCCCGCAA GACCCACCGA GGCTGCGCA AGGTGGCCTG TATTGGGGCA TGGCATCCTG CTCGTGTAGC CTTCTCTGTG  
GCACGCGCTG GGCAGAAAGG CTACCATCAC CGCACTGAGA TCAACAAGAA GATTATAAG ATTGGCCAGG GCTACCTTAT  
CAAGGACGGC AAGCTGATCA AGAACAATGC CTCCTGAC TATGACCTAT CTGACAAGAG CATC

SEQ ID NO:1975: (Length of Sequence = 233 Nucleotides)

CCCTCTCCAT CACCCTTGA CCCTCTCTGA GTGGTCTCTC AAGGCACATT TATTTTCTCT GCTGCAACCT ACCAGATCTG  
ACATCCACCT CCCCCAGCAC CCAATGGGCCA AGGAGGCCCTG GGGCAGCCAA GGGGAGTTCC AGGACCAAGC AAGCAAGAAA  
CCGTTCTTTG AACACATGGT TAAGCTTCTT CCAGCATGGC CCTAATTCCC CTACCTGCCT AAGCCAGGGG AGT

SEQ ID NO:1976: (Length of Sequence = 162 Nucleotides)

AAGTGTTACA AGCCCCAGAA TGCTGCCCCG CCTGCCCTGC TGGGCGGACT GTCTGTGTGT CTGTTCTCTT GCGTTCCAC  
CTCCAAGCCT ATACCAGCTG TGTACAGGCG CATCTCTCTG CCTTCTGTGT CCGCTCACTC ACCAAACAG TGTATTATA  
GC

SEQ ID NO:1977: (Length of Sequence = 270 Nucleotides)

GGCTGAATTA AGAGCATCA GAAAGCCAG GCCCTCCATA GGCTGTGGCG GGATGATCTT CACTTTGATC TCITTGGTGG  
CATTAGGTGT TGTGTGAGT GGCTGTGATT TCTTCTCTGC AGGGGGAGTG GCATCTCCTG GAGCAGCTAC GTTGCTCTGA  
CGTTTGAGGG GGATGGGTTT AAGGTTGTAC TTGTCAGAAA CCACCACTGT GCTGGCATTG TTCTTCACAG GCACCAAGGA  
TGGTGTCTCC AGCTCTAGTC CAGTGGAAAG

SEQ ID NO:1978: (Length of Sequence = 167 Nucleotides)

TTCAGGAGT TGCTGATATT TATTCAAAG TCATCCATAC AATAAAGAAC TCNCTTTTA AAATTCCATT TACATCAGCA  
GTAAAAAAA AGTGACAGTG GATGAAACAT GANGCTGTAA AGTGCCTTTA TGGGGAATNC AGCCAAGCCT GCTCCACTG  
TGCTGGG

SEQ ID NO:1979: (Length of Sequence = 346 Nucleotides)

CATCATAGCA ACAAGGGCT ATGTACTATA CTCAGGAAAA CCATTTATTT GCACTGGAGG CAACTGTTCT TGAGAGAGGA  
AAAGTAAATT GTCCAAGATG TAACATCTTA TAAATAGCAA AGCAAGGATG AAAATTATTA TATTINACTA AATCAGTATG  
AGAATCTGA TTCTTCATTA TTATATCCCC AACACTCTAT CAGTTTGTG AACAAATCAA CAAATAAGCT TGAATAAAGG  
NTCCACATCT CAATTCTCCT CCACCACTCT ATATTGCCCT TCATCCCTAC ATTAAAATGN TTATTTCTGC TTTTCTCTT  
TAACAATTA TCCCTAAGT AACTAG

SEQ ID NO:1980: (Length of Sequence = 174 Nucleotides)

CACAACTGA CAGAGGAGAC AGGAGGAATT TAATATTACA TGCTATAATG ATATTTATCT CACAGTTTAT ATTTCATCA  
TTTATATTAT TTTTAAAAA GGTTCCTTTA TCAGCTACTA AACATCTCAG CAATTGGTG TGCATAGCTC TAGATTAAAG  
AACAAAGAAAT TGTA

SEQ ID NO:1981: (Length of Sequence = 276 Nucleotides)

TGGNTCACTC ATAAGTTTTC AGTGGTTAAT TACTACAGTT TAAGAAGACG TGTGATTTAT TTTTAGATCT GACCCAGCAG  
ATCATACCIN TNCNTTGAAT TACATGGTCT TCTTTGGCT TCTAAGATGT CAACTCCTG TCTTAGTGGC CACTGCTCCT

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CAAGCCCCCT TTGCTAGCTC TTCTCATCT GTCCAGCCCT AACCTGACCG TGCTATGTAA GTCTCTCCG TTTTCACCCC  
CTNCCNGGGT GACCGTTATA CTNCCAAACC TACAGG

SEQ ID NO:1982: (Length of Sequence = 288 Nucleotides)

GCTGCAGAGA GGTGTGTTCC AGGAGCAGGC TTTCCCGCTC GGGATCCAGG TCATCCCCCA CCAGAGAAAT TTCACAGCCA  
TCCAGGTTGT GCACAATCTC ATCCGACATG CGTGINTCTG TCACTGTGCC CTGCCAACTC TCATCCTTTT TGGCCTCCAC  
CTGGTGAGAA ATGGAGCAGG TGATTTGAAG ATCAGGGAAC AAAGGGACGC CGTTGGTTCC CTCAAAGTCC ACAGCTNGGC  
GGGCAAAATG AGCAGTGCCA CTCAGCAGGA TCTGGGGGGC GTCAGGCT

SEQ ID NO:1983: (Length of Sequence = 273 Nucleotides)

CACAAGCCAC TTTCAGCTC CAGTGGGAAG GCTCCAGCCA CAGCCCGATA TTCTGTCCTG CTTCCTGTC TCTCATATCT  
AAAAGTCATG GCTTAAGTTA GGCAATAAAA CCTGTGGCTT TAGGCATCTT TAGTAAAAAA GCTGAACAAA TCCCAAATTT  
ATTCCCATTT TCTTGAGAAA TAAACTTCAT AAAACAACAG ACAGCTGTCA TGATTACTGA GTTTTGGCTG ATGGCGAAAT  
AATTTTTATG TAAGTATACT GAATAACAT ACA

SEQ ID NO:1984: (Length of Sequence = 221 Nucleotides)

GAAGAGGCTG CTCTGGCTG GGACACCCC ACTGCTCTCA AGGAGCTGGC ATCTCAGTGG CCTCTNAGCC CAGCCTGAGC  
CCTGTGGGAG TNCGGGGGCA GTGACTGGAA TGINTCTGTC GGCAGGCTGC AGCAGCCGAG GTGGCCCCAG GGCAGAGGAG  
TGCAGCGCAN CTCATGGGTG CCTATGCCA CCCCTGGTGC TCACTGGCT GCTGATCCG T

SEQ ID NO:1985: (Length of Sequence = 197 Nucleotides)

TTGCTACCAT GAGGGAAGTG CTGTTGCTT GGCTACAGC AAGTATACA GGCTGCGAGG CACAGTCCCC AAAAGTCTAG  
CTGCAATCTT ATTTGGTGGT TTCCCCAAC AGCAATAACA AGATGTTACC TGAAGCACA CCAGAGCCAA TCATGACTCA  
GGCCTGTCTA GATGTTTAGA TGCTGGAAA TATATTT

SEQ ID NO:1986: (Length of Sequence = 268 Nucleotides)

CACTTGACA TTCTCTTTA TTGTTACAT TCAACCCAG CACAGTCACA TGCACACAG GAGATCAGAA ACCTTTNGGC  
CACAGCCCCA GGAGCCCGGC GGGGGGGAGG GCGGGACCGA CAGGGGCGGG GCGGGGCGGT GGAAGACTCC TCCTACCGAG  
CCTCCAGGC GNTCGGCGTT TGCATAACA AGAGAGCTGG AGAGGNTGCC CTCAACAGTG CGCTGGGGAA AGGGGAGGGA  
ACGTGACAGG CAGGTNNGG ATAGGGAC

SEQ ID NO:1987: (Length of Sequence = 282 Nucleotides)

GTCTCACTG TAAACAAATG AGGATGGAGG AACTGAGAG GNTCAAATAT GAAAGGCAGT ATGGGGAGTT AGAGCCACTC  
GTCTACTCT GTAAAGAGCA TGACTACTCA CAGTCTTCT AGCGGGTAGT CACTCTTTCA TTAAACAAAT ACTTAGTCCC  
TGCAATGATC TAGGATAATA ACTCAACAGT GTATATCAAG AGCCTTTAAA AAGTTATACC TGGCCGGGCG CAGTGGCTCA  
TGATGTAAAC CCTAGCACIT TGGGAGGCCA AGGCAGGCAG AT

SEQ ID NO:1988: (Length of Sequence = 226 Nucleotides)

TGAGGGGGT TGGTCTCTC AGGAAGTTAG GCCATAATT CTGCAGGTC AGTGATTAAC TGGATCCAT CCCATGCTGT  
CTGAACTGT TCAGGAATGG GAAATTCTT ATAATACCA TCCTGACGGA TAAGTATGTT CATTTAGAT GACTTGGCGC  
TCAGNTCTC ACAGTCTAAT GCATCTTAC TGAGGTATAT GTGGCAACCT TCTGTCTTAT TAATGG

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SEQ ID NO:1989: (Length of Sequence = 193 Nucleotides)

CTCCCTGTAG GTCATGTCCT TGAGAGTTAA AAGATGGTT GAGTAGGCAG AGGTCTCAGG CACCGGGGAC AGAAGACAAG  
GACATTCAGC ACGGGCAGCC ATGCTCTTCC CAGCACCAG AAAAGGCCCA GGGCCCGGAC TCCTGGGTGT GGTATGAGA  
AGCGCCTCCG ATTCAGCCTC TTCTCTTCTT GTG

SEQ ID NO:1990: (Length of Sequence = 223 Nucleotides)

CTGCTTCATT TACCACCACC AGCGATGGA CCAGTTTATT GGATTCACCT ATGATACCAG GACTTTTCCA TTCAATTCAA  
TTCAACAAAC TTTTAGAGAT CGCCCTATT CCAAGCTCAT CCAGTTCTG CTTTATGAAG GCAGGCTTTG GCATATCAGA  
CATAAAAGC TGGAGGAAGT TGAGGATTCT TTTGTGGTA AGTATATAAA GTGCATTCCC ACT

SEQ ID NO:1991: (Length of Sequence = 385 Nucleotides)

GCAGAGAAAG TGCCAGGCAT CAACCCAGT TTGTTGTCC TGCAGCTCTA CCATCCCCC TTCTTTGGCG ACGAGTCAAA  
CAAGCCAATC CTGCTGCCA ATGAGTCACA GTCCTTTGAG CGGTGGTGC AGCTCCTGGA CCAGATCCCA TCATACGACA  
CCCAAGAT CGCGTCTG TATGTTGGAG AAGGCCAGAG CAACAGCGAG CTCGCCATCC TGTCCAATGA GCATGGCTCC  
TACAGGTACA CGGAGTTCCT GACGGGCTG GCGCGCTCA TCGAGCTGAA GGACTNCCAG CCGGACAAGG TGTACCTGGG  
AGGCCTTGAC GINTGTINGT AGGACGCCA GTTCAACTAC TNCINGCAG ATGACATCAT GGAAG

SEQ ID NO:1992: (Length of Sequence = 312 Nucleotides)

GGCTTACAGG ACAGAAAGGT CCCTTCTCAC AGTTTGGGAG GTCCGAAGTC TGAAGTGAAG CTGTCAGCAG GGCCACACCC  
CCTCTGGATG CTCCAGGGGA GGGTCTTTG CCTCTCCAG TTCTGGTGGC TCCAGGCAIT CCTTGTCTTA TGGTGGCATC  
ATTCTCTCT GCTCCGTCTT CAGTGGCCT TCTCTGTGT GTCAATCTC CTCTCTGT TCTTTGTA AAACACTCGTC  
ATTGGGATT AGGNCACC CCAATCTAGA TGGTCTCATC TTGAGCCTT ACTTTAGTTA CCTCTGAAA GA

SEQ ID NO:1993: (Length of Sequence = 429 Nucleotides)

CTGTTTTTAC TCGACGAGGA GAAGACCTTT TCATGTGTAT GGACATACAG CTCGTGAAG CACTGTGTGG CTTCCAGAAG  
CCAATATCTA CTCTGACAA CCGAACCATC GTCATCACCT CTCATCCAGG TCAGATTGTC AAGCATGGAG ATATCAAGTG  
TGTAATAAAT GAAGGCATGC CAATTATCG TAGACCATAT GAAAGGGTC GCCTAATCAT CGAATTTAAG GTAAACTTTC  
CTGAGAATGG CTTTCTCTCT CCGATAAAC TGTCTPINCT GGAAAACTC CTACCCGAGA GGAAGGAAGG GAAGAGACTN  
ATGAGATGGA CCAAGTAGAA CTGGTGGGAC TTTNGATCC AATCAGGAAA GACGGCGNCA CTNCAATGGG GGAAGCATAT  
GAGGGATGAT GGACCATCAT CCCAGAGGT

SEQ ID NO:1994: (Length of Sequence = 377 Nucleotides)

TGGGGTGGC AAACCAAGTG CCGTGTCTT GTGTCAGCCA GCTGTGGCAA TTTACCCCTT ATTCCTTGA GAGGCCAGCT  
GCCTGTGGA AGGAGTCAGA AGTCGGTGA TGTCATTGAG GCCTTGGAGG CCCCAGTNG GCGGGAGAGA AATCCACACC  
TGTCCTGGA GTTCTCCTTC CCGTACCTC TGAACGGCG CTTAAATGC TGTCCCGCT GGAACAGGGA GGCCACATCC  
AGCAGTGGT CCTCAATGTG CTGCCCCAGC CTGTGGGAAT CCGTTTTTGT GCTTGATTTT TTGCTGGAGA TGTGGAAGGT  
GATCATGCCA TCCCCATGA AGATATAAGA AACANCATAA CCATGGTCAT CAGCAGG

SEQ ID NO:1995: (Length of Sequence = 341 Nucleotides)

GGACCTATAT GGCCATGCTC TGGCTCTACC CTGGGAGCC CTGATCCCG TGTGTCGCC AGCTTGTCTT GCGCCAGGGA  
TGCTGCATCT CCAGGCAACT ATGCACTTTC CCGGGAGAG AACCAGTATG AGAAGTGGGG GCAGGGCACA CATTCTCTT  
TGTACCTGCC TCTTTGGTTT GGACCTGGCC AGTCGGGTCA CTGCCTCCAC GTCTGAGGCC CCGCCAGCTG GCGTCTGTCT

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CTCGCCAGCC TCAGGCTGCT GCGCTCTCTC GGCTTTTACG GACCTCTGAG GCCGAAACCC CACCTOGAAG TTTCCCOGTG  
ACAGTGGTTC CGAGTCCACA T

SEQ ID NO:1996: (Length of Sequence = 316 Nucleotides)

GCATATGGTT GGTGAACAGT TTTGCAGCCC TAGGCTCCTG TACTGTGCGT GCACCGCCGC CCGGGCAGCC GCTGGCTCCA  
GCTCACGAAA CAGCCCCGGG CGCCGCGCGG CTCTGAGTCC AGCCTCCTAC TGAGAACAGT CCCTCCCTTG TGCGGGTCGC  
ACGGCTAGCC GCAGGTTTCG CCACGTCAAA TCCATTTTNT AAAAAAGCAG GGAGCAGAGC TCTCTCTTCG CCGCCGACGC  
AGAAAGGAGC TNGGGAGGAA AAAGCTGCTG CCTTTTGCGC TGGAGATTG TGGGCAAGGC TTCTCATTTT CCCAGG

SEQ ID NO:1997: (Length of Sequence = 320 Nucleotides)

GCAGGTTTAT GTTTTATTTT ATGTATTTTA ACTGACTTAT TTGTGTATCC CACTAGAACA ATACATTAC AATATACTTG  
CAGAACTGTG CCTGGNGCAT CATGGGAGCA GAGAAGTTGT CCAGTGAATA GTTGTGAAG AAAGNGTAA AATCTCCCC  
AAACCTAAA GGCATCCTTT TCGTAGTGTG TGTCCCATAG GTATGGCTGC TGAGCACCAG GGCTGCTCAC CATGCTCCCA  
AGAAGCAGAG TCAGGGAGGC AGACAGCAGG GTTTATTAAG GTGCACANCC ATGTCTGAGC CCCAGCTCTC TCCGNTTCT

SEQ ID NO:1998: (Length of Sequence = 395 Nucleotides)

TTTGATGCTA TGGCGCTGGA CCCAGGGCCC TCCCAGGCCA TCTCTGTTC TCTGGGGTGG TCCAGTTCTA GAGTGGGAGA  
AAGGGAGTCA GGCGCATTGG GAATCGTGGT TCCAGTCTGG TTGCAGAATC TGCACATTGG CCAAGAAATT TTCCCTGTTT  
GGAAAGTTTG CCCCAGCTTT CCGGGGCACA CCACCTTTTG TCCCAAGTGT CTGCCGGTGC ACCAATCTGC CTGCCACACA  
TTGACCAAGC CAGACCCGGT TCACCCAGCT CGAGGATCCC AGGTTGAAGA GTGGCCCTTT GAGGCCCTGG AAAGACCAAT  
CACTGGACTT CTTCCTTGA GAGTCAGAGG TCANCCGTGA TTCTGCCTGC AACTTATCAT TGATCTGCAG TGATT

SEQ ID NO:1999: (Length of Sequence = 337 Nucleotides)

GAAAGTATTT GTGTGATTGA GTCACACGCT GAATCAATCT TCATATAATG CCATTTTTCG TTAAAAGAAT GCCAGACTTG  
GGCATTAGGC TGACATTTTC TTGAAACAG TGAGGCTTGT CTTTAGGGAA AATAGTGGTA GTATTATGCG TCGATGATAA  
AGTTCCTAGA TTTTAAGCAA AAATTTTAGA AAGCTTGTAT CAGCTGCTGT AAGTATATAA TGAAATCTGT CATTATTGA  
TTATCTGCAT AACTGAGTCA GTATTTCCAA ATGATCAATG CATAGTATTA TAAAATCAT ACATGGGTAA GAAATCTTTA  
CAAAGTGTC GCTAGAC

SEQ ID NO:2000: (Length of Sequence = 329 Nucleotides)

ATGTAGCCCC CTGCTGCAAA GGTGCCATCT TTTTNCCTGCT GCTCACACAG CAGCGTGCTC AGGGCCTGCC TGCATGGCAG  
NNTCATCATG GGGGAAGCCA CAGCCACTGA CATCATGAAG CCCACACGGA GCATCTCCGT CACCAGGTTG GAGGGAAAGT  
GCATGAGCAC GTTTGCGGC CGTGGCCTCG GTGAAGCTGA CGTAGCCGAA AAACCCACC ATGACGTAGG AAGGTGGTGA  
CCACATTAAG GGAGGAAGCA AATATGGAGC TCATGGTTTT CACTTGACGG GCTCATCCAG GCTGTCTAG GTGGGCAGCA  
CCTGGGACT

SEQ ID NO:2001: (Length of Sequence = 308 Nucleotides)

AAGTCTGGGG TTTGGTAGGC TCCAGGATT TCCTCAGCA GGCATTGTG CTGCCGAGG GCCGTCTGGG TGCCCCGCAG  
GTCTCTCTGG ATGCTCTGTA GCTTCGGTG GAACGACTCC CTCACTGACT GTGTGGCAA GCTGAGCTCT GCCCTGACCC  
ATGTGGCATT GGCCAGGATG GGGGCCANGC CCTGTGGGAT GCTTTGCTGC CCGTCTCTG AGGCACCGAC TGCCTCTCT  
CCAGTGTCC CCAAGTGCTT CCTCAGAGAC TCAALCTGNN TCCAGAACTC ACCATCCACT AGGACCTT

SEQ ID NO:2002: (Length of Sequence = 242 Nucleotides)

AGCCAGGCCC TGGGCCCAAG CCCCTTGTC CTCTCCACT GCCCCTCTT CCAGACAGTA AAGGCCATGG TCAGTGTGTT  
TTTCTCTGT AAACAAACCC CAGCTTGTTT AACAGAAATG CTAATAACCT ACTGGGAAAG ATGGAGGTCT AAATTACCTC  
CAGGGTTTTT CTGGGGTTT ATCACCAGTG TGGGTCCCTT CTGATACCAC CAGGTTCACT CCAGGCAGAG TGGGGCGGAA  
GG

SEQ ID NO:2003: (Length of Sequence = 328 Nucleotides)

ATATTCTCAC TTATAAGTGG GAGCTAAATN ATGGGAACAC ATGGACGCAT AGAAGGGNAC ACTTTTACAC TNCCTGGTGGG  
NGTGTAACT AATACAACCA CTGTGGAAA CAGTGTGGCG NTTCGTAAA GAACATAAAG TAGATCTCCC GNTGTATCCA  
GCAATCCAC TACTGGGTAT CTACCCNNA GAAATAAGT CATTATACAA AAAAGATACT TGCACACAG TTTATAGCAG  
CACAATTGC AATTGCAAAA AATATGGGGC CAACCCAAAT GCCATCAAT CAATGAGTGG ATAAAGGAAA TGTGAGATAT  
ATATATAT

SEQ ID NO:2004: (Length of Sequence = 211 Nucleotides)

AGCCTTTTAA TTATTGTNIT TTTTTTTTT TAANCGAAGG TCCCTTACTG GTCTGCTTC CATGAGTAGC CGTGACCAGG  
GGAAAGGGA GAGGAACCAG CCGGCACAGG GAGGGTTCAT CTCCACAACA TTCCATTAT ACACAGAACT AAACAGACAA  
GCACAGNGTC ACTATTGCGG TTAGAAGTTG GCAGCATGGG AAGGGGGAGG A

SEQ ID NO:2005: (Length of Sequence = 241 Nucleotides)

CCGGACACC GTGGGAAGG GGTGCAGTG GGTGATGGC CAGAGGAATG ATGGGCTTTT NTCTGAGGG GTGTCCGAGA  
GGCTGGTGTG TGCATGCTC ACGGACCCA TGTTGGATCT TTCTCCCTT CTCTCTCTT TTTCTCTTC ACATCTCCCC  
CATAGCACC TGCCCTCATG GGACCTGCC TCCTCAGCC GTCAGCCATC AGCCATGCC CTCCAGTGC CTCTAGGCC  
C

SEQ ID NO:2006: (Length of Sequence = 266 Nucleotides)

TTCCCCCTAA CCTGTGAGT GGGCCTTTA AGTAGTAAAT AGTATACACC TAGATATGGA TAGATAGCTA GGTGACCAAA  
CCTAATGGAT TAAGGCCATC CTGCCTAGG TCACTTACTA AAGATCAGT CATATGTCAT ATGTTCTCTG TGCTTTTITAG  
AACGTATTG GGAATGGGT CCAGATTTT TTAAACACA TATTAAAGAT TATTATATT ATGCTTTGTT TCCGAAAGGT  
TTTAAGGTGG ATTAAATAT AAGATT

SEQ ID NO:2007: (Length of Sequence = 419 Nucleotides)

AGAAAGAGGC TTCCTTCTGC GGAGGCAGT GGAGCACAG GAGGCTCCT GGGAGGCACA GGAGTGGGT GGGGGCCAGG  
AAGGGGGAGG TGGACAGAG GACTTGATA AGGCTGGCC GGGCCACGC CCACCTCAAG AGGGGGGCG CCTCCTCAGG  
AGGATCAAG GTGCAATCCA GTCTCCTTT CTCTCCCTGA AGACCTGAGT TCCAGCCTTC ACAGAGCGTC ATGCGCATTC  
TTCTTTCTGG ATGCTAACCC CAAATCCGAC ACTCAATGT GCACCTCAGG TACCTGCCAA GGTCTINTGG GCCACATGG  
AAGGTGCAGG GTCTGGGTCC CTGGATGAG AGGTGAGGG CAGATGGGTG ACCAGGGAAG GGCATGACCC AGAGCTNCCG  
GGACTCATGG AGGATNGG

SEQ ID NO:2008: (Length of Sequence = 360 Nucleotides)

CTTTCTGGA GAAATAATA CGCTGTTCC TCTAATTAG CCATCGGTT CAGGTCATC ACTCTGCTAT CTCTCCTGG  
AGTTTACACA AGCCCTTCAG AGTGTAACA CCGATGTGGA TTCAATCCA CTCATTATT TTTCAATAA AAAGAGAACT  
GTTCAACAG ACAGGTGTTG TTTCCGACAT CATCAGAGAG GAAGGTGGAT GGTCTATAC GGTAAAGCAIT CTACCCTTCA

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GCTGCCAGGG ACAGATCCAT AAAANTCCAA AAAGGGAAGA GAGAAACAGC TTGAGTACAG CTGAATCATT CACAACAATA  
TTACAGCAA TTACTTCAAT GGTAAAGTCT CCACTCTAGA

SEQ ID NO:2009: (Length of Sequence = 411 Nucleotides)

ATTACGGGCA CCTGCCACCA CGCCTGGCTA GTTTTGTAT TTTTAGTAGA GACGATGTTT CACCATGTTG ACCAGGCTGG  
TCTCGAATC TTGACCTCAA GTGATCCACT CGCTTCGGCC TCCCAAAGTG CTGGGATTAT AGGCGTGAGC ACCTGTGCCC  
AGCCTCACAG CTGCATCTTA ACCTTACCTT TGCCTCGCC TCTCAAGCTG GTACCTCCTA ATTTACATCC TAAGAGTGGA  
ACCATGTGAC AAGGACTGGA GTGCCATTGG CTGTGACTG TTCAGGCAGG GAAGTACAAG ACCACTCTTG TATTAGGGG  
CAACCAAAGG AGAGAATTAC GTACTTGTG AGTACAACT GCACCAAGCC CTGGAGACCC ATTACCACCG TTAACCTCA  
ATACAGCTCT G

SEQ ID NO:2010: (Length of Sequence = 311 Nucleotides)

AAGAAAGATG CCAGCTCTTT ATTACCAGGG AAGCTGTGTG CACGCGGTG GAGGGTNCCT NTGGAGCTGA CCGGGCCCTT  
ACCTTCTCTT GCTGTGAGA GGTGAGTCTT GGTACCCAGC ACGTGGCCT CCGGGAGGCT TTGATAGGTC AGCCTTTGCT  
GCCTCCAGC TCAGGGCTCC TCCAAGGAAC CTGCGGGGCC CCATGTGCCC ACAGCCCGAG GAGGGAAGCA CCGACCGCCC  
TCCTCGTGGC CAGTTGACAC ATCATCCATT TATTATCCTT CAGAGTCTAA AACTTCTCTG TGATACAACG T

SEQ ID NO:2011: (Length of Sequence = 192 Nucleotides)

TCAGGACATT TCAGTGAGGC CACCTACAAG CAGAAAGGAG GCCCAGGGCT AGGGACAGAN TGGCCCCAGA GCCAGTCAGC  
TGCAGCAATT CTGTGAGAA AGGGAGGGCA AGCTGCCAGA GCANTGTNGC CCAATATGAT GCCTACACGA GACAGATGTC  
CCAGTAGAG TGTTTTCAGT GACCTTCTAA AC

SEQ ID NO:2012: (Length of Sequence = 367 Nucleotides)

GGATGACCTT CGAGGACGTG TGCGGTACT TCACGGACAT CATCAAGTGC CGGTGATCA ACACATCCCA CCTGAGCATC  
CACAAGACGT GGGAGGAGGC CCGGCTGCAT GCGCCTGGA CGCTGCATGA GGACCCCGCA CAGAACCGG GTGGGGCTG  
CATCAACCAC AAGGACACCT TCTCCAGAA CCCACAGTAC ATCTTCGAAG TCAAGAAGCC AGAAGATGAA GTCTGATCT  
GCATCCAGCA GCGGCCAAG CGGTCTAGC GCGGGAGGG CAAGGGTGAG AACCTGGNCA TTGGCTTTGA CATCTACAAG  
GTGGAGGAGA ACCGCCAGTA CCGCATGCAC AGCCTTCAGC ACAAGGC

SEQ ID NO:2013: (Length of Sequence = 213 Nucleotides)

GATTTTATGG AAAAAAATTT CCATTTTNT TAAGAAATAA GGAGTTNTG TGTCGAGGGC ATGACTACGA GAGGCTGGAA  
GCTTCCAACA GAGAATGCTG AACGANTTCC CCCATGCCAT CGCATGCAG CACGCAACC AGCCCGATGA GACCATCTTC  
CAGGCAGAAG CTCAGTATTT GCAGATATAT GCTGTGACTC CCATTCCAGA GAG

SEQ ID NO:2014: (Length of Sequence = 333 Nucleotides)

GTAAATAAA ACAGCAAATT CTAAATACA TTATGAGTAA AGAAAGATTA AAATAAGGNA ACAGTACTTA CTGTGCAACT  
TTAAATATA CCAAGTAAAG TACACCACCT ATTCATGAT AACATTTTCC CTACGTGAA AACACAAAAC CTACTTATCG  
ATATTTTGA TATTAAAAA AAGGACATTC ACTATTGTAG CCTGACAAC TCTTCAGTA TTTTAAACCA TTCAGATGA  
TTATGTGGGN ATATTATTA ACATAATTIN GTTAAACACA TTTCTTCTA CACAACTGA ATTTAAAG TGTCTATAAC  
ATTTCAATT ACA

SEQ ID NO:2015: (Length of Sequence = 179 Nucleotides)



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NCACCACTTA TTGCTTCAA ACATTATTGC ACTTTAATT TCTTAATTG ACAAAGCATT CAAGAAACAT CTGCAGACTA  
GTTTAAACAG ACAAATAACA CCTGTAAACA GACATGACTG TCCTAAATTG TTTATTAAGA AAGTTAAAGN GCAATAATGT  
TTGAAGACAA TAAGTGGTG

SEQ ID NO:2016: (Length of Sequence = 293 Nucleotides)

TTTCCCTCC CCAGAGATGC TTTATTACAT GGTTTCATCA GTCATCAATG ATGGGTCCCT ATGCCCATGC GAGGAGACAG  
GAACATCTGT GTGGTACATG GCACTGTTCC CCTCTCAGCT ACGCAGTCAG ATGGGGGAG GGGGATGAAT GGGTGCTTGG  
CTTCCCTGCT GTTGGGCAGG CTCTGAGATC TCAGCAGACA GAAATGAAAG CCTGGCAAAT AGGGAGGCAG GAATGTTCAA  
GCATCGGTGA CCTCCATGTT CTGCAGCCTG TTTTCTAGGG TGACGTCTCT TTG

SEQ ID NO:2017: (Length of Sequence = 504 Nucleotides)

CGCGTCTGG CGCGCTGTG GGCGCGCTGC TMTGCGNCCC CAGNCTCCTC GTGCGCCTGG ATATCTGTTC CAAAAACCCC  
TGCCACAACG GTGGTTTATG CGAGGAGATT TCCCAAGAAG TGGAGGAGA TGTCTTCCCC TCGTACACCT GCACGTGCTT  
TAAGGGCTAC GCGGGCAACC ACTGTGAGAC GAAATGTGTC GAGCCACTGG GCATGGAGAA TGGGAACATT GCCAACTCAC  
AGATCGCCGC CTCATCTGTG CGTGTGACCT TCTTNGGNTT GCAGCATTTG GTCCCGGAGC TGGCCCGCCT GAACCGCGCA  
GGCATGGTCA ATGCTGGACA ACCAGCATCA ATGACGATAA CCCTGGTTC CAGGTGAAT TNCINCGAG GGATNTGGGT  
AACANNINIT GTTACGAAGG GTGCCANCG TTTGGCCAGT ATTGGTACCT AAAGGCTTTA AAGGTGGCCT ANAGCTTAAT  
TGGNAGGAIN CENITTTNTCC ATGT

SEQ ID NO:2018: (Length of Sequence = 354 Nucleotides)

AGANCAGACC CACAGGCATG CAGAAAGTA GGCAGTATG TTTAANTCCA GACTTGGCAC ATGGCTAGGG ATACTGCTCA  
CTAGCTGTGG AGGTCTCAG GATGGAGAG AATGAGTAGG AGGGCAGAAG CTTCATTTT TTCTCTCCT AAGACCCGT  
TATTTGINIT ATTTCTGCC TTTCCGATC CTGCAGTGG CTGCCCTGTA CCTGAACCT CATGAGCCTC TAAGGGAAAG  
GAGGAACAT TAGGACGTGG CAATGAGACC TGGCAGGSCA GAGTACAAGC CCAGCACCA GTGTCCAGN CTTACTGGGT  
CCTTANCTG GGCCAAACAG GGAGGGCTGA TACC

SEQ ID NO:2019: (Length of Sequence = 295 Nucleotides)

GACACAACCT TTTGAACAT TGTGCTGTT TTCATTTTAA AAAGGAACCT TTAATACTAA AATTATAGGA AGAACATAAT  
ATCTGACGTC ACGTAAATC AGATTGAGG GAAATTTACT TTTTNCCTT ATTTGNCIT ATTTTCTC ATTTTGTAA  
GAACAGGCA AACTTTGAA GAAAGCCAAA AGTTACATC TGGAGCTGGA GGGTCTGTG ACTGCACACC AGGCACTCTG  
CCAGCCCTAC TTCTGCCGTG AGTCTGCAG GTCACCTGCC AGAGGTGGTA CTTTC

SEQ ID NO:2020: (Length of Sequence = 217 Nucleotides)

ATTGGAACCT AAGTTTACA AGGAAAGTGG TCACTTTAGT TCACCACCTT CCTGTGAAA CTTAAGTTC AATGGGAGAA  
TGACAGTAAA CAGACAATA TTATAATAG TCATGGAAG ATTTTGGTGT ATGTAAGATT TNCAAATCTG TAGAGAAACN  
TNGGCTCAT CAATAAAAT TTTGAAACCA TTGATTAATG TCTAATAAC TATATGT

SEQ ID NO:2021: (Length of Sequence = 380 Nucleotides)

TTTTTCTTA AAACAACAGC AACGTGATCT TGGCTGCTG TATGATGAG AAGTCCATGG TTGGGTCTTG TGAAGTCTGA  
GGTTTAAACG TTTGTTGCTC TGGNGGATTT TTCTTACAG GAACAATGA CTCTCTCAA GTCCAGAGC GGTAGAATC  
GGCAAGAAGG ATCAGGTCAG CCACTCCCTG GAGACACAGC CTCTGGCTG GGGACTGACT TGGCCATGTT CTCAGCTGAG

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CCACGCGGCT NGTAGTGCAG CCTTCTGTGA CCCGCTNIG GTAAGTCCAG CCTTTCAGG GCTGCTGAGG GCTGCCTCTT  
GACAGTGCAG TCTTATCGAG ACCCAACGGC TCAATCTGCT CATCCNTAAA GTGGGGGATA

SEQ ID NO:2022: (Length of Sequence = 223 Nucleotides)

GGTCACACAG CTAGTTGGTA GAGGAGCTCT TCATAAGAT AGCAAGGCCA CATCACCTGC AGGGCAGTGC CTGCNCTGGG  
AGGTGGCACA ATGTGCCAAG TGATGACGAT GACAATAACT ATGAAAGGAT TTTATATTG CACAGCATTT GGTGCTCTGA  
TCTTCGATGA GGAAGAGCTC CTGCCGATGT CTGCTGAATT GTGCAGTAAA ATATTTCAGGA TGG

SEQ ID NO:2023: (Length of Sequence = 294 Nucleotides)

TATTCTTAAG TTTCACITTT ACAAACCCAC AAGGGAGAAG TCCTTGAAGG GGAGACAGGG GTAGGGGATT AGGGAGTGGG  
GGATGGTAAA GAGGGGAAGA GGAAGACCA GAAACGAAGT CCCCTCCAAC CCCATCTCGG GGACCAAGCA GAGACTAGGC  
CTCAGGCTAG CCCAGCAGGG TTCTGTGTG CTGGTGTGAC AGAGCTAGGC CAAAAGACCT CAGGGGAAGG GCCATGGCCC  
TCTAGAGACT GCCGCCATTT GAGGGACAGC CACAGGCCAA TGTTTCTCTGT GCCC

SEQ ID NO:2024: (Length of Sequence = 234 Nucleotides)

ATTTTGTGCG GGTTCGAAAC GTCTTCTGCG CTGAGCTGG GAGCTTCACC AGGCTTCGGT GTAGCGGACG TCCACTTCTT  
TCAAATGGG AAGCTTGSCC TTCAGATCTT CGTAGGTGTC AGCTGAGAGC TTNGTGTGT TCATGTTTAA ACTGCAGAGA  
CTCTTCATGG AGCTCAGGC CAGCAGGCCA GGTCTGTAA COGGGGTCTC GCACAGGTTC AGCACCTGGA GCAT

SEQ ID NO:2025: (Length of Sequence = 327 Nucleotides)

AGGAACAAAT GTTAAAGGT AAGATAATTT CCTGCAAAA GGACACAGAA GGCAGTCTTA AGAAGATGAA TGGATGAGAG  
AAGGGAGAGA ATAAAATGCA ATAACGAGCC AGCATTTACT ATGTATTNN TCCTCACCTG TCTCTCCATA TTTAGGTCAC  
TTACCAITTT CTGTGCCCTT TTGGAGCTTT TMTGAGGGC TTCATTCTCA CCTGTATTT CTTTAGCCCT AAATTGACAC  
TCTCTCCAAA AATCCATTC ATGTCTGTG GACCNAGATG TTCTATGTAA TTCAGAAGCA GAACCTCTGG CTAAAGGGCT  
AGTGTGG

SEQ ID NO:2026: (Length of Sequence = 328 Nucleotides)

TCAGTATAAA TTAAAAGAA ACAGCTTAAT GAAATACAAG TCAGTTTAT TGATATTCAG CCTACAGCTT TCCAAAGCAG  
CAGTTGAACA TGTTGTGAG TTTATACCAT TCATTCATTC ATTTATTTT NCTTCTTTC TTTCAGAAAA TACTGGGTGT  
TTGATATTG TTTCAGTGT CTAGTTTCTG GGAATGTGTA AGGAAGAGGC TGGCTGTGTG GATGAGAGCA ACTTGCTTTT  
TACAATAATT ATTTGTTATT GTAAATTAAC AATTTGCTCT TCTGGTATTA TATGGAAGTA TTTGATCCNG TTGATGGCAC  
TGCCTTTG

SEQ ID NO:2027: (Length of Sequence = 307 Nucleotides)

AAGAAAGATG CCAGCTCTTT ATTACCAGG AAGCTGTGTG CACGCGCTG GAGGGTNCN TTGGAGCTGA COGGGCCCTT  
ACCTTCTCCT GCTGTGAGA GGTGAGTCTT GTTACCCAGC ACGGTGGCCT COGGGAGGCT TTGATAGGTC AGCCTTTGCT  
GCCTCCCAGC TCAGGGCTCC TCCAAGGAAC CTGCGGGGCC CCATGTGCC ACAGCCCGAG GAGGGAAGCA CCGACCGNCC  
TCCTGTGGC CAGTTGACAC ATCATCCATT TATTATCCTT CAGAGTCTAA AACTTCTCTC GTGATAC

SEQ ID NO:2028: (Length of Sequence = 272 Nucleotides)

ATCCATTTCT GCATTAACCT AGAGTTAAAA AGGAATATT TTTATTTT GGCTCTCCCC ACTAGAAGTT TCACAGNGC  
ACAGATCATA TCTACATTT GAACAGCTCT CTGCCTGATG GCTAATACAT TTNTGGCAT ATAGTAGGTA GGTGCTCAAT

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AAATTTNITA CAGGAATAAA TGAGATAGGA TTTTCAAGG TATTTNCTAT TAGGATTTAA TAAACAAAG TGATCTTAG  
AGAAACAAAT CTCCCCATCA ACATGCTATA CT

SEQ ID NO:2029: (Length of Sequence = 261 Nucleotides)

ATTTCTACTA AAANTACAAA AAATTAGCCA GGCIGGGTGG TTGTGCACCT ATAATCCCAA CTACTCGGGA GGCTGAAGCA  
GGACAATGTC TTGAACCCAG GAGGTGGAGG CTGCAGTGGG CTGAGATCGC ACCATTGCAC TCCACCTTGG GCAACAAGAG  
GGAACTCCG TCTCAAAAAA ACAAAACAAA ACAAAACAAA AACAAAAGTC AAGTGCTTAC ATTTTGCCAG AAGCCACAAA  
TGAAGACTGT GCCTTATAGG C

SEQ ID NO:2030: (Length of Sequence = 384 Nucleotides)

MTCCNNGGAC CAACAGCAGC CAGAGCAGTT AGCCAGTTAG TCCCCAGGCC TGTGGCACAG GGTTTCTGA CCTGCTGGGC  
CGAGAATGGG TAAGTTGTCT GGAGTCAGGT GGGCCACGT AGGACAGGT CACAAAGCCT GGGTTTGTCT CTGGGTACTT  
TGCGCTCTG GGGTGCTAGA GGTGGGGCAT GGTGGCTGGA AGTAAACTG CCAACTCTGG CCTCAGAAC TCTCAGGTAT  
AGAAGCCCA GATGTCTAAT ACCCTNTCCC AGTGGCCGAG AGCTGCCCTG TGTAGGTAG AGAGGACACT GTACCTGGGT  
GAATGATCAG ACCCTGGTAG CTAAGAAGN ACTGTCCCT TTAGTCAGTT TGCAGANCCC CTTT

SEQ ID NO:2031: (Length of Sequence = 261 Nucleotides)

ATCAGAGAGG AGAAGCCACT GTTGCCAGGA CAGACGCTG AGGCGGCCAA GGAGGCTGAG TTAGCTGCCC GANTCCTCCT  
GGACCAGGA CAGACTCACT CTGTGGAGAC ACCATACGGC TCTNTCACTT TCACTGTCTA TGGCACCCCC AAACCCAAAC  
GCCAGCGAT CCTTACCTAC CAGGATGTGG GACTCACTA TAAATCTTGC TTCCAGCCAC TGTTTCAGTT CGAGGACATG  
CAGGAAATCA TTCAGAACTT T

SEQ ID NO:2032: (Length of Sequence = 344 Nucleotides)

CCCCGACAG GGTCTGGTT CTTCGGGGAA AACGCTCACC CACCCCTGGT AAAGGGCTG CAGATCGAGC ATCCCGGGCC  
CCACCTGAC CAGCAGCAC CACAAGCCAG GTACCCCGAG CAGAGGAAAA GGATGGACAC AGCCCCATGT CCAAAGGCTT  
AGTCAATGGA CTCAAGGCAG GACCAATGGC CTTGAGTTCC AAGGGCAGCT CTGGTCCCC TGTATATGTG GNTCTCGCT  
ACATCCCGAA TCATTGCAGT GGCAAGACTG CTGACCTTGA CTCTCTCGT CGAGTGGTG CATCTACTA TGTGGTCAGT  
GGGAATGACC CTGCCAATGG CGAG

SEQ ID NO:2033: (Length of Sequence = 373 Nucleotides)

GGAAGAAAGA AAGAAAGAAA GAAAGAAAGA AAGAAAATGG CCCCATAGTG CTTAAGTCT CAGACATGTG TCCTGGTGCT  
GGGGACAGG CTCTGACAT TCTCTCAGGT CAGTATTTGC AGGTATCCA CCTTGGACTT CAACACATGT GACCAGAAAC  
CTTCCCAAG CAGCCATCCA CTTGCTGTC CCTCCGAGG CCATGGCTGA CCACTGCTGC TGCTGTGTAT CCTCGGTGAC  
ATCTGGCCCT GGCAGCCTAT GGATTNTGC CATCTCTCTG GCATGAAATC ACTCCTTCTT GTTGTTTTAA TTTCATTTT  
TTCAGTTACC AGCGCAGTTG AGCATCTTTT CATACACTTA CTGACCATTT CTA

SEQ ID NO:2034: (Length of Sequence = 289 Nucleotides)

CCACCAAGA ACATCAGCT GTCTTATGTC AAATGCTCGA CAATACCTCT CAGTAGGAGG TTGTTGCAAG GCTAGCTAAT  
TTTAAATCTG GTATGAGTAA TACAGTCAAA CCTAGTTAGT ATGCGAGAAA GTCTGTGCTA ACGCATGGTG AGAGGATGTG  
ACGTACAGC ATGAGCAGTC CCTGGTGTG CCATTGTGAG ATAAACGTAC TTAGTATG CCAAGTTCT ATCCAGGTC  
TCTGAACCCC AAAGCCAGGC CTTTCACTTT TGCTGGGTGG CCTGGAAGC

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SEQ ID NO:2035: (Length of Sequence = 290 Nucleotides)

CTTTTCCTTC ATCTGAACAC AGAAGGAGCC ACGGTCTGGA AAGTNTGCCT GTCCTTCCCG GGAGTGGGGA GGCCGGTGTG  
 AGTTTTGATC TTCCAGCTCA GGCAGACACC TTACACAGTG CAAACAAGAG COGTGTCAAG ATGAGAGGGA AGCGTAGACC  
 GCAGACCGT GCAGCTAGGC GGCTGGCTGC TCAGGAGTCC AGCGAGGCTG AGGACATGAG CGTCCCCAGA GGACCCATTT  
 GCACANTGGG CTGATGGGCG CATTTCCTCCA AATNGCCATC GGCACCAGCT

SEQ ID NO:2036: (Length of Sequence = 241 Nucleotides)

TTATTTTATA TAAAAAGTGT TTCTGTGATT CTCCAGAGCC CAGGAGTCAG TNCCTGGTGGT TGGAGGGGACC TGCCCCCACT  
 GGTTCAITTA ACCCTCTGTC TCGGTGCCCT NAGAACCTCA GCCAGAAAGG CAAGGAGGAA ATCAGAGCAN GAGCCTCATA  
 CTCTGGTGA TCTATTCATT CTNIGACCTC AGGGGTGACA TATAAGGTCA GTGTTTCTCG TCCCCGNCGG ATCTGCACTG  
 C

SEQ ID NO:2037: (Length of Sequence = 270 Nucleotides)

CTATTATTTT GCATTTTGG TAGAAGGGGT GGTCTCACCA TGTCGCCAG GCGGTCTCG AACTCCTGAG CTCAAGCGGT  
 CCACCTGCCT CAGCCTCCA AAGTGCTGCG ATTACAGGCT TGAGCCACTG CACCCTGCCC AACCTTGACT ACTTCTAATA  
 GGGATGAGTC GAGTAGCAGT TNGGGGCTC CTGTGCGCT GGGTCTGCT GAGGCTCCCC TCGGCCCGT CCATGGCTTG  
 TTGTGCATCT GGCCCTGAGT GCCTTGGCCC

SEQ ID NO:2038: (Length of Sequence = 151 Nucleotides)

ATTTTAAATT GAGCATTAG GGAATGCAGC ATTTAAATCA GAACTCTGCC AATGCTTTN TCTAGAGGCG TGTTGCCATT  
 TTTTINITAT ATGAAATTNC TGTCCCAAGA AAGGCAGGAT TACATCTTTT TTTTTTTTTT TAGCAGTTTG G

SEQ ID NO:2039: (Length of Sequence = 166 Nucleotides)

TTTGTCGTT ACAACCTCG TATGACGCC CGCCACCGC TGTTACGTC CCGTCGGCT CCTGCACAGN CCACACGCTG  
 CGCCCGAAG GCCCCGCTG TGGAGAAGCC GGACCCATC CCGAGGTCCC CAGCGAGGAC ACANACTCCA CGAGAGCAGC  
 CCTCC

SEQ ID NO:2040: (Length of Sequence = 362 Nucleotides)

GAAGTACGGT TAAAATTAGA TTGACCATA TGAAGATCT TTTACCAGTT GGTCTCCAAG AATGTCTTCC TTATTATGTT  
 ATTGGTCATT TTGAGCGTG TGTGTTGGTG GGGTGGTTTC TGCCTTATAT TCCTTAACIA CATTGTATAT TTTTGTAAGG  
 AATTGGGAAT TCATTTTAAT GCTTTTAAAC ATCTTCACTG GGAAGTGGAA TAAAGTTATT CTTGACTCTG TACCTTGAGC  
 CATGTGCAAA GTCAGGGGTT ACATTTTAGG TATCTAAAAA TTAATCTTAA ACTTTCACAT TCCCTGGGTT AGGAAGCTGC  
 TGTTCAGGAG AAATTTTCN GGTCTTCTG GCAATTGGCT TA

SEQ ID NO:2041: (Length of Sequence = 360 Nucleotides)

CCTAATTGTA AGINATGAAG TOGAGGAGT GCGTGATAAT GGGCCAAGTG AGGATGCAAT GCACCAGGTG TATAAGTAGC  
 TGCACTCACT CCAGCTTCAA TTCCAGTTTC CCAGGCAGAC CTCTCTGAG CCGTCGAGG ATGTNAGGAC ATAGTCTGAG  
 GCACATGAAT ATGATGCCCA TGACCATAGT TTGGGTGCAT CCTATGTGGA TGGGGTGGG GCGGTTTCATG TGCCCGCNTT  
 GGA<sup>1</sup>GCTGCA TCATCTCTCT CCTTTGAACT TCATCTCTCT GCATCACTTC ATGAGGATGC AGTCTCTGAG CTGGAGGTGC  
 TGTGGCTGGA ATATGGTGG AAATTGGCTG GTGTGTAGGA

SEQ ID NO:2042: (Length of Sequence = 403 Nucleotides)

435

GTTATTGTTG TTTGAGATGG AGTTTCACTT TTNTTGGCCA GGCTGGAGTG CAGTAGCATG ATCTCAGCTC ACTGCAACCT  
 CTGCCTCCCG GGCCCAAGCG ATTCTCTCTC CTCAGCCTCC TGAATAGCTG GGACTACAGG TGCCCAACAG CACACCCGGC  
 CAATTGTTGT ATTCTAGTA GAGATGGGGC TTCTTCACGT TGGCCAGGCT GGTCTCGAAC TCCTGACCCC AGGCGATTCC  
 CCCACCTCAG CCTCCAAAAG CGCTAGGACC ACAGGCGTGA ACCACTGCGC CCAGTCGGAA GTAATAGTTA TTAACCAATG  
 TGATGGCCCG GTGTAGGGAC CCTCGCCTGT AATCCAGCA CTTTGGGAGG CCAAGGAGGG AGGACCGCCC GNGACCAAGA  
 GTT

SEQ ID NO:2043: (Length of Sequence = 331 Nucleotides)

CCCGTACGG TGTGGCTCTC AGCAGCCTCA CCACAGGCAC CGCAGCTTTC CCGCTGTGCA CCCAGCTGGG TGTGTGAATC  
 CCCCTGGACT GCGCCAGGC CACCTTCATC TCCCATGACA AGATGGTCAT CTCCTCAAG GGCAGTCAGA TCTACATGCT  
 GACCCTCATC ACOGATGGCA TGGTAGGTT CCGAGTGTTC CACTTTTGAC AAGGCGGCCA CCAGCGTCTT CACCACCAGC  
 ATGGTCACCA TGGAGCCTGG GTACCTGTTT CTGAGTTCCT GCTGGGCAA NTCCTCTCTC CTCAAGTACA CCGAGAAGCT  
 TCAGGAGCCC C

SEQ ID NO:2044: (Length of Sequence = 244 Nucleotides)

ATGAAGATA CTAAGAGCCT CAGTCTGGAA GCATTACCT AGGAAGCGCA TATAGACAGA GAAGATCAAG GACTGAGGCC  
 TGAGACAGTC AGCACTTAAA GGGTGAGGGG AGAAGTGCCA AGGAGACAAG GTGAGAACAG CAGAAGAGTA GCCAAGGCCC  
 AGGATGTTGC CACAGAAGCC AGGAGAGGTG AGCATGAAAA CAGAGGAGGA CCAGCTGCTG GGACAGAAGA GCCATATGGA  
 AGAG

SEQ ID NO:2045: (Length of Sequence = 333 Nucleotides)

GTCAGGGATT TGTCATTCT GCTCTGGCC TCTCTGAGG CCTCATAATG GGAGACCAA TCAAAAATGT CCCATGTCAC  
 TTGAGTGGGT ACACTGCCTA CAGAACCCTG AGGTGACTC CTGCTTCAGT TCTCAGCTGT TTACCACAGC CTTCCAGGT  
 CCAAAGATTG AGGAGCTTTC TCTTCTCTGG GAGGAAGTGT CTCANATTTA GCTTGTGTGT GTTTTGGACA GAGGCTCCAC  
 AGCGGTGGCT CTTGAGGAAT CTTACCAAGT TTGINCTCTT CCTCTGACA AGCAGCACCT GAGCAGATGC TGAGGCAGTT  
 CATTAAACCA GGG

SEQ ID NO:2046: (Length of Sequence = 274 Nucleotides)

GCAGGTTTAT GTTTTATT ATGTATTINA ACTGACTTAT TTGTGTATCC CACTAGAACA ATACATTAC AATATACTTG  
 CAGAACTGTG CTGGNGCAT CATGGGAGCA GAGAACTGT CCAGTGAATA GTTGTGAAG AAAGGAGTAA AATCTCCCC  
 AAACCCTAAA GGCATCCTTT TGTAGTGTG TGCCCATAG GTATGGCTGC TGAGCACCAG GGCTGCTCAC CATGCTCCA  
 AGAAGCAGAG TCAGGGAGGC AGACAGCAGG GTTT

SEQ ID NO:2047: (Length of Sequence = 327 Nucleotides)

GGCGCGATG TGCTTTTTC CTGNTTCG TGCCCGGAT GCGAATCTT GAGCCTCGGT GTGSGTTAC AGAGTTGTCC  
 TGGTGAACGG ATGCGGAGGT TTCTCTCTT TTGTGTGGG GGCGGCTGGT GGCAGGGGCA GCTGGTGGCA GGGTTGCCA  
 CGCTAATCTC CGAGTCTCTA AGGCACCGT CTTTCTCTGA TCCCTCTGTC GCTGTGTTCA TAAAGGCAGA CCGCGGGGCG  
 CGCGCCGCA ACCTGAAATC AGAGCAGGCG TCGTGGGCG TCAGGAACCT TGCTGAGCTT CGCGATCTT TCATTGTGTC  
 TTCATTT

SEQ ID NO:2048: (Length of Sequence = 241 Nucleotides)

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ACTTTGTGT TCTGATTTTA GGACTCTGGC TGGCCATGTG CTNNNGTIG CCTCTCTGC ATTINCCACT GGATTINAC  
TGCATCGTTT GGAGATACAA AGCGAGCAGT TCTTGGTCAG AACCTCTC TGCTTTTCAT TGTTTGTAT AATGGTTACT  
GGTCTCTTCT CTCAAGGGTA GCAAGGCCAA GCTGATGGCT GCTTGTITAG GAGGCCATCA GTTCTTCT GTGGAGAAGG  
G

SEQ ID NO:2049: (Length of Sequence = 269 Nucleotides)

ATTTTGTAGTA GAGACAGGT TTCACCATGT TGGCCAGGCT GGTCTCAAAC TCCTGGCCTC AAGTGAGCCA CTGCTTTGG  
CCTCCCAAAG TGTTGAGATT ACAGGTGAGA TATTCTATAT TCATGGATTG AAAGACTCAA TATTGTTAAG ATGTCAGTNC  
TTTCTAAAGN GATTTTITAG ATGCAACACA ATTCCAATCA AAATCCCAGG NTTTTTTTGT AGCTATCAAT TGATAGATAT  
CAACAGCCAG CTGATTCTCA AATTTACGT

SEQ ID NO:2050: (Length of Sequence = 170 Nucleotides)

TTTTGAAGAG AACGTCAGTT TAATAAGCT AAATGGGGAG AATTGAAGTT TGCATTGAC ATGGTATTAA ACAAACCAA  
AGGGCTGAAA CTCATGTTA GACAACACAG GTCAGTAGTC ACTAGGCAA GAAAACAGTC CACAGCAGGT GGCACAAATA  
ATTCTATAC

SEQ ID NO:2051: (Length of Sequence = 262 Nucleotides)

CAGGGCACAC GCAGGACCAC TGTTGATTAG AAACCCACAC GTGTCCTCG CAACATCTCT CCCACATCCA CATCCAGAC  
GGAGCCAAAT CTCATTGTG ACCTCAGTC ACCACCCAC AAGATGGAGC CGCTGGTTAC GACATGGATG ACAGGTGTCA  
TGCACAGGGA GAGAATTNT CCCCGATAC CCTGAGGAC CAAGGACCAC CCCAGGCTA GGGTGGGAGG ATTGAGAGCA  
GTGCAAGAAA CCAAGGAGGA TN

SEQ ID NO:2052: (Length of Sequence = 325 Nucleotides)

GAAAAAAGAT TGTTTGTITA GAAAAAGCAA AAACAAAAA GCATTAGAAA GTGGGAGCCA CTGCACAGCA GTAGCCTAGA  
GACTGGCTGC GATATGGTAG CTCTGCCCTG ATATCATCTT CGTGTCTCA GGCATAGAGA AATGGCAGAG GAGCAGTAAG  
ACCCACAGG AGATGGCCAG AGGNTCCACC ATCAGCCTTC TGGGGACTGA GGAGGTGATC TTAGTGAAT TATTTTATAC  
TCACCTCCCC CGGGTTTAG TCCTCTCTCC AAACACTTAG TTCCAGGGCG CAGGAGACCT GTTACTAGCA CTGTATGTT  
CTTG

SEQ ID NO:2053: (Length of Sequence = 222 Nucleotides)

TTTCAAAATT AGTCTTAAGA GTATAAGCTG TTTTNAGG CTGTAGCCAG ACTACATAAT GAGCGGTGAA AGCGGCTGCC  
TTCCCTCTC CTGACACCAG CAAGGGGGAG GCACCATCAC CGGCCCTGCC CCATCATGCA TCCAATGATT ACTAGCACTA  
GANGCCAACG GCAAAGNCC CGCGCGCTT GCTCGTGT TATCCAGGTT AAGCTATACA CG

SEQ ID NO:2054: (Length of Sequence = 341 Nucleotides)

GTAAATTAAG AATATGGCCC CAGAGTTTG TTTATCTGGG GTCTGAGCAT AGATTTTATA TTCTCTGTG CGTTTTTTAA  
ATCTAACTTT CTGTCTCAA TGGAGAGAGA ACAGGGAGGA TACAGAAGTA TTGCAGCCA GATCCCTAT CAGGGGGACA  
GCTGGTGGG AAAGCAGCCA CCCACAGCC TTGTGGCTAG AGTACAGTGG GGTGGACCT CCAGCCCCAA TAGCCCTAGT  
ACCCAGCTGG CAGGGTTGCC CCCCCCTGCT GTCCACCTG TCCATCTCT AGGGGTCCA CAGGCCCTG ACCGCACAGG  
GAGGCTGGG CCAGCCTGGT C

SEQ ID NO:2055: (Length of Sequence = 258 Nucleotides)

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CTGCCTCAGC CTCCCAAGTA GCTGGCATT A CAGGCGCCCA CCACCACACC TGGCTAATTT TTGTATTTTT AGTAGAGACG  
 AGGTTTCACT ATGTTGGCCA GGCTGGTCTT GAATTTCTGA CCTTGIGATC CGCCTGCCTC GGCTCCCAA AGTGTGGGG  
 ATTACAGGCG TGAGACCCAC GCCCGGCCAA CTGTCTTTTC TCTAATGGCT GCGATGTTA ATTTTTCAC TGGCTTATTT  
 ACCGTCTCCT TCTGTGGA

SEQ ID NO:2056: (Length of Sequence = 292 Nucleotides)

CTCTTGACTC CGAAGGCTGG TGACAGACAC ATAAGGCAGC TCAAACTCTT GCAACTTCCG TACAAAAGAA AAGGCTCCAT  
 CCTCTTTTTT TCGAACTAAG AATAGACTAA AGTATCCAAT CAAGTCATCT GGAAGATCCA GCTTTGCAGC TACAGCCTCC  
 AGGACATCCT CAGTCTGATC TGAAGTTAGC ACGTIGACCA GAACTTTCTG CCGTGTGCTG AGCAGCACTT CCAAGGACAC  
 TTCTCTGTG GGGACCTGCT GTGTCTCCTG TTGTGCCCGA CGCAGGAAAC TG

SEQ ID NO:2057: (Length of Sequence = 293 Nucleotides)

CCAAAAAAT TGGGTGCCTG AAGGTGGGGT TTTGATCATG GCCAGGCTTC AAATTTAGGT CAGGCTCTGG TGGTACATCC  
 TTATATGCTT GGTGCTCAGC ACAGGTCAAG ACACACAATA GACCTCAAT AAATATTTGC TGAATTTGAA CAATTCCTGT  
 AAAAATCTCA TTAAGAGACA TCAGCTTGGG ACACAGTTCC TCTCTTACTG TTCCTTCTCC CAGAAGCTCC TGGAAATGAGC  
 AGGTCTGGCG GCAGGGGGCA CACAGGGCTG CTGCTCAAT CGGAGAATGG CAC

SEQ ID NO:2058: (Length of Sequence = 172 Nucleotides)

CTTCTACAGT CAAGGAGCTC AAGCTGCGCG GCGACCCCTG CTCTGCCTC CCACATTAAT GCGGCATCC TCGGAGGATG  
 ATATAGACCG GCGGCCCATC CGGAGAGTGC GCTCCAAGAG CGACANGCG TACCTCGCAG AGGCCAGGTT CTCTTTTAC  
 CTGGGGGCAG CT

SEQ ID NO:2059: (Length of Sequence = 245 Nucleotides)

GCAAGANGGC CGAGGGGGCC CAGAACCAGG GCAAGAAGGC CGAGGGTGCT CAGAACCAGG GCAAAAAGT AGAAGGGGCC  
 CAGAACCAGG GCAAGANGGC TNAGGGGGCC CAGAACCAGG GCAAGANGGC CGAGGGGTCT CAGAACCAGG GCAAAAAGGC  
 CGNGGGAGCC CAGAACCAGG GCCAAAAGG AGAGGGAGCC CAGANTCAGG GTAAAANGAC AGAAGGGGCT CAGGGCAAAA  
 AGGCA

SEQ ID NO:2060: (Length of Sequence = 318 Nucleotides)

ATGCCCTGTT AAGGAGCTTG GGCTTGATCC TCTAGGCAGG GAGCCGTTGG AGGATTTAAG CCAGGGAGTG CTGCGGTTGG  
 TCACACTGCG CATTTATGTA GATCGTTTIG GCAGCCAGGG GAAGGATGGA TTTNAGGGGG ATGAGATTAG AAAGCTGGGA  
 TATGAGTTAG GAGGCTGAAA GATGGTTGAT AAAAATNATC GTTGGGCAGC CGAGATAACT GACTTCAAGG ACATATACTG  
 GACTTATAGC AGAGCCTGTT GAGTCTTGCT TTGACACACA GTTCAAATAA TCCTTAGTC ATGTGGTTTA TCTTGCCA

SEQ ID NO:2061: (Length of Sequence = 331 Nucleotides)

AAAAATAAAA ATCTATAAAC TACGGATCAT AAGCAACTCC TGTTCCTG TGTTTCACCA CATCTCCAG AACTGAACT  
 TTGCTCATA AAAATTACAT AGAATGTAAA CTAATTCATT TTTTAAAGTA AATGCAAAAC TAAGGGTTAC ACAAGCACTG  
 AGCATCAACA CTGACAGAAT ATTAATTCG AAGCCATTA ACTTTGACAA ACGTTTATC ATCTTTGCT TCTGAAGCG  
 TGTAAGTATC CCAGTTTATC AGGAAAAGCT TAAACAGAAA AAGTTAAATA ATAATCTCAA GGTAGNAAA CTAAGACATA  
 ATTCTAGCT

SEQ ID NO:2062: (Length of Sequence = 316 Nucleotides)

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CTAAATCAA CCACATAATT GGACATAAAA GAATCTTCAG CAAATACAAA AGAACCAAAA TCATAACAAA CACACTCTAG  
 GGCCACTGCA CAATAAAAAT ACAAGTCAAG ACTAAGAAGA TCACTCAAAA CAATGCAATT ACATGGAAAT TAAGCAACAT  
 ACTCTCAAAA TGACTTTTGG GTAAATAATA AAATTAAGGC AGAAATAAAG AAGCTCTTTG AAACATAATGA GAAGAAAGAT  
 ACAACGTATC AGAAACTCTG GGGTACAGCT AAGGCAGTGA TAAGAGGAAA ATTCTTAGCA CTAAATGCTC ACATTG

SEQ ID NO:2063: (Length of Sequence = 312 Nucleotides)

ATCCATGGCT TTAGCAAGAT CCCAGTGTG GAACTCTCCT AGCAACTTGT NTTTCATCCAG TGATACTGGT TCINTGGGG  
 GCACTTACAG GCAGAAGTCC ATGCCCGAAG TGTGGAGTG AGCCGTAGAT CCCCAGCCTC CACTGACAGG CAGAACACCC  
 AGTCAGATAT TGGTGGCAGC GGAAAATCCA CGCCTAGCTG GCAAAGAAGT GAGGATAGCA TTGCTGACCA GATGGCTTAC  
 AGTTATAGAG GACCTCAGGA TTTCAATTCT TTTGTCTCG AGCAGCATGA ATATACAGAG CCAACATGCC AT

SEQ ID NO:2064: (Length of Sequence = 294 Nucleotides)

TACCTAAAGA ATCTCAGAT GGGAGACCCA GCCAGTTTG NTCACAAAT AGCAGAAGTC AGCCAAAATA TAGAGAACT  
 GCGAGTAGAG ACCCAGAAAT TTGAGGCTG GCTGGCTGAG GTTGAAGGCC GGCTCCAGC ACGCAGCGAG CAGGCGCGCC  
 GGCAGAGCG ACTGTACGAC AGCCAGAAC CACCCACAGT CAACAACTNC GNCCAGGACC GTGAGAGCCC AGATGGCAGT  
 TACACAGAG AGCAGAGTCA GGAGAGTNAG ATGAAGGTG TGGCCACGGA TTTT

SEQ ID NO:2065: (Length of Sequence = 331 Nucleotides)

GAGCTGAGTT TCACCGTGT GCCCAGGCTG GTCTCGAAT CCGGTCTCA AGTGATCCTC CTACCTCAGC CTCCCAAAGC  
 ACTGGGATTA CAGGTGTAA TCACTGTGCC CAACCTGCTC AAATCTTTG AGAGAAGCAA GTCTCTAGC TGAACGTGAT  
 AATGGCCTCA AAAGCAGTGT TGACAGCAGA TAATCTTCAC ACAGACAAAT GTCTACAGTT TCTAAATAAG CCAACTGTGC  
 ATATGGCCTA CAGGCTCTTC AGCATAACCT ACCCAAAGCT CAGGTTCCT GAAGGCCAGG ACAGTACCTC GGGCCTTCAA  
 GCAGCATTTG G

SEQ ID NO:2066: (Length of Sequence = 321 Nucleotides)

GTCTGANCT CCTGACCTCA GGTGATCCAC CANCTCGGC CTCCCAAAGT GCTGGGATTA CAGGCGTGAG CAACCGCACC  
 TGGCCTTGAA CCCTTTGAAG TATTGATGCA AAAACAAGTG GTCAGCTATG GCCAAATTCG CAATTCAAAA AGATCCAAGA  
 AAGCAAGTTG AACATCCTGA TTGGAGATGG GACACACCCA AACGTGTGTC TTGAGGTGGC TGCAAAGTCC TCCGTCTGA  
 GCCAGTNTAA GCAGGTTTAA CCCCAGCCCA TGATTTAGAG AGATGTTNAG TGCAGATCCT GAGCTCAGCA GAGAGCAACA  
 T

SEQ ID NO:2067: (Length of Sequence = 335 Nucleotides)

CTGGCTCTGT GGCTCAGGCT GGAATGCACT GGGCCGAGGT TGGCTCACTG CAACCTCCAC CTCCTGATCT CAAGNCGTCC  
 TCCACCTCA GCCTCTCAAG TAGCTGGAAC TACAGTGGA CTACAGGTGG ACAACATCAC ACCCAGCTAA TTTTNTNAT  
 TTTTGTAGA GACGGGGTTT CACCTGTGTG CCCAGGCTGG TCTCAAATC CTGAGCTCAA GCAATCTGCC CACCTAAGCC  
 TCTCAAAGTG CTGGCATTAC AGGCATGAGC CACCGTGCCT GGCTGGGAA GCTCTTTTAA CAGAGGTGAT GTAAAGTAGA  
 AAAAGCAGTG GGCTC

SEQ ID NO:2068: (Length of Sequence = 274 Nucleotides)

GCAACGAAT GCACAGGTA AAGAAGGAAT GGAAGAGGC AGAGCTTCA GCTAAGAACC TCCCAAAGC AGAGAGCCAG  
 ACTCTGATTC AGCACTTCCA AGCCATGGTT AAAGCTTTAG AGAAGGAAGC AGCCAGTGAG AAGCAGCAGC TNGTGAGAC



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CCACCTGGCC CGAGTGGGAAG CTATGCTGAA TGACCGCCGT CGGATGGCTC TNGAGAACTA CCTGGCTGCC TTGCANTATG  
ACCCGCCACG GGCINATCGN ATTCTNCAGG GCTT

SEQ ID NO:2069: (Length of Sequence = 321 Nucleotides)

GTGCCATCTG TTTACTTCTC AAATGAAAAA GAATTCAGGT CTGAGTGTCC AGGAAAGGGG GTGAATTTCA TAACCGCCTG  
TGACAGCGAT GGGAAGGAGC CACACCCCTC CAGAGGGTAC CACCCAGCGG ACAAGTGGGG AGGAGGAAGT AGCTGGCATG  
AAGCCGGCCC ACCCAACCTC CGGGAGAGAG GAAAAGGAGA ACACGGGATG AGGAGGCTTT AAATAGTATT TCATAAAATA  
AAAATGCCA GCACTCTTAG GAACCTCTCA TTCAACCGCC TAGTTTTTGT TTAATAATT CTAATGCCAG AGCTGGGGGG  
C

SEQ ID NO:2070: (Length of Sequence = 161 Nucleotides)

AAAGCTGCAT AAAACAAGTT TAATTTCCAA CCAGGGTCAC AGTCATCGCG TTATCCACA TTTTGAGCAA GGATAGAGAA  
GGTGAGTAT TAAACATATA CAGTCTACAT TCCAGAGGAG GAACTGCAGT TACCACTATA ACACCACAGA CAAACTTTGG  
G

SEQ ID NO:2071: (Length of Sequence = 288 Nucleotides)

GTGGAAGGCC CTTCATAAT GCTTCCATC TTCAGGAACA TCAGAGAATT CATACTGGGG AGAAACCATT CAAATGTGAT  
ACATGTGTA AGAACTCCG TCGTAGATCA GCACTTAATA ATCATTGCAT GTCCACACA GGAGAGAAAC CATACAAATG  
TGAGNCIGT GGTAAAGTGT TCACTTGTAG CTCAAACCTT CGTATCCATC AAAGGGTCCA CACAGGAGAG AAACCTTACA  
AGTGTGAAGA ATGTGGTAAG TGCTTTATTC AGCCTTCACA ATTTTCAGG

SEQ ID NO:2072: (Length of Sequence = 284 Nucleotides)

TCTGTCTTC AGACCCCTTT GCGTATGT CCTCCTAAC TGGGACCTAA GCTAAGACTC AAGGGCTGCT CCCATGCCCT  
TCAGTATCCC CCATAAAATC TAACTACACA TTAGAACTC AAAGAATAGC ATAGGCATGA TCCATCAGCT GCAACAGAAG  
CAGTGAGGAG ACTTAAGCCA GGGTCCCTNC AAGNGATINC ACCGACCTT CCGCATCTC TGNATGCGG ACTCCTAAGC  
ATTACTCAG ATTTTAAACA GCACATAATG CCATGGCGAG GATG

SEQ ID NO:2073: (Length of Sequence = 270 Nucleotides)

GGAGCGATAC GCCCCTGTG CGAAGGACCT GCGTCTAGA GATGTGGTGT CTGGTCCAT GACTCTGGAG ATCCGAGAAG  
GAAGAGGCTG TGGCCCTGAG AAAGATCAG TCTACCTGCA GCTGCACCAC CTACCTCCAG AGCAGCTGGC CACGCGCCTG  
CCTGGCATTT NANAGACAGC CATGATCTTC GCTGGCGTGG ACGTCACGAA GGAGCCGATC CTTGTCTCC CCACCGTGCA  
TTATAACATG GCGGCGATTC CCACCAACTA

SEQ ID NO:2074: (Length of Sequence = 278 Nucleotides)

GCACATGCCA TCAGTCTGG CTAATTTTGT TATTTTGTAGT AGAGACGGGG TTTCGCCATG TTGGCCAGGC TGGTCTCGAT  
CTCCTGACCT CAGCTGATCT GCCCACTCG GCTCCCAA GTGCTGCGAT TATAGACAGG AGCCACCGNC CCGACCCCTC  
TCTCACTCT CAAATCTCTT TCTTTTTC ACCTTCTAGG TGCAAAAGAC AGTGGATGGT CTCGTAGGTT CAAAACCAAG  
CTGACCGGT AAGTATTTAC AGCAAAGCAT CCAATGGG

SEQ ID NO:2075: (Length of Sequence = 232 Nucleotides)

GCTCTAGGA TCACTCAA CCCAGGATCA CGTTTTGTA ATGTTATCAA GGCATGATT TGGATTTAG AGCTGGCCCA  
GTGAACAACA AGCAATCAAG CATTCCTTC TCTTCTTC TCTCTCTCAC ATATACACAC ACACTCTTC TCTCTCAGT

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TACTTTCACT GTCACITTTCT CTCTACTGGA TAACAGGCCA AAAGTACTGG CACTCATCTT TCACTTTCTT CC

SEQ ID NO:2076: (Length of Sequence = 223 Nucleotides)

GTCACGAGGT CAGGAGATCA AGACCATCCT GGCTAACACA GTGAAACCTC ATCTCTGATC TATTCAGGGC TCTNACTTCT  
TCCTGGTTTA GTCCTGGGTG GGTGTATGTG TCCAGAAATG TATTGATTTT TTCTAGATTT CTAGTTTATT TNGTAGAGG  
TGTTTATCT CTGATGGTAG TTGTATTTT TATGGGATCA ACGGTGATAT GCTCTTTATC ATT

SEQ ID NO:2077: (Length of Sequence = 323 Nucleotides)

GTCCCCCTTC CCTCTTGTG AGACCAGGCT CTGTCTCAGG AACAGGCCTG AGGGAGGAGG AGCCACGTTT CTCCTTCCTT  
GGAGCCCTGA GGTGGCCAGG CTGTCCCCAC ATAAAGCATG ACATCCAGGT GCCAGCTGGC TAAGAAATGG AGCCTGAGGC  
TGCAGCTCAC CACCTGTACC TCACAGATGT CCATTGAGAG GAAAGAAGGG TGCTCCAAAC GCCAGGCCCC CAAGGAGCAC  
AGACTCAGGG TCCAGGCAGG TTCAGTGCTA GTAGGCAGGT GGGCACTGCT GTCCAGGAAA ACCTGGTGGG CAGCTGTTTT  
CCC

SEQ ID NO:2078: (Length of Sequence = 310 Nucleotides)

AATTTCAGT TGTTAAATCA AACCTACTGA CATTATAGT CCCTTACTTT CTCTTCTTTC TTCCATGTGA AATGTCTGAA  
ATGTCGTACA GTCATACTTC CCACTGTATT TTTAGGTTTT ACTCTCATAC TTCAATAATC ACTACCACCC TTTATTTCAA  
TAAAGTTTT AAGTCAGTGC TGATTTTTTG GTAGCTCCCA TTTTCTGATA TATTTGTCAT GTACATATGC AAGTGTATGT  
AATGTAGGTG TGCATCTATA TATACCCACA TATACATATA TACATATAA TATATATGTC CATATACAG

SEQ ID NO:2079: (Length of Sequence = 281 Nucleotides)

GAGACCTGCC AGAAGATTAA AAAAAAGAAT GAGAGAAAAG CCCAGTTAGT GGTGTGCAAA CTTACTTCCT TTAAATGTCC  
CATGGATGTA GGACAGTGCC ATGTTTCAAG ATGCCTGTGA GCTAGGTCTT CAAGATTTAT AGAATGTTAC TTATGAACAA  
AATATAATTA TTTATGGTAC AATTCTTGTA CTTTAGCAAA TCTGGAGTTA GTTCATAGTC AAAGTCAGTT AATATTCTT  
AGAGGAAAGT TTGGCTTTT TGTTGCAACA TTTTATAGC T

SEQ ID NO:2080: (Length of Sequence = 311 Nucleotides)

ATTAAAAAGA ATATTATTTA TTATCTNCTT TATTAATACT CACATGTAAC CTTTGCTTTT TACACAAAAG TCTGCTTTAG  
AAGAATGCCT CCNCGGCTTA TCATGCCCAA TGGGGCTTTT TGTTTCTGGA CCACITCCCC TTCTCTCACC CCCACCCCCA  
CATCCAAATT ACTCTTAACA TGTTACAGA TACCACGNAT ATTTTGTAAG CAAGNTTGG GTTACTGGAA CTGTATTTC  
TTAATATCCC ACTTCAAAT GGAAGGCAGG TGGAGGCAG GGTAAAGNAA TAGGGGGAAG GAGGGCAAGA G

SEQ ID NO:2081: (Length of Sequence = 207 Nucleotides)

GGACGCACGC TCGTGCCAT CACCGCTGGG TGGTTTTTTC CCCCTAAGTT TTACTTAGC CTTTTTGGTT TGINTCCCCA  
CCCCACCTTC CTCACCCCT TTCCAGTTCT TCTTCAGGCC CCTCCAGAC GCACCCACGC GGCCCTGCA GCCCCTGCCT  
CCAGCTCCA GCCTCAGTT TGTCGCCAGA CTGCAATTG GAAGACT

SEQ ID NO:2082: (Length of Sequence = 260 Nucleotides)

TTAAAAGAAA GTGCATACTT ATTTGCAAGG AAAACAAATG GAATACACA AATTTTGA ATATAAGAC TTTTTCAT  
TTATGTATGT GTTTACAATT CAAAATAATA AAGCTAGTTA AAAGTCAATA CATATTAGAT ATATTCAAAT ATTTTNCAC  
ATAAATTTG ATCTTATCAG TTAACACCA TAGCAAGA CTAAGGAGTA TTGTATAAC ATTAGGTAT TTGACCTCAT  
ATCTATTCA TTTGGGTTA

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SEQ ID NO:2083: (Length of Sequence = 257 Nucleotides)

AGTTTCATAT GTTTATTAAA CCAAGCATGA GGCCCTTCTG TGCACAGGGC CCTGTGTGAC GGCATGGGAG GCGTGCTCAT  
 GAGGCTGGGC GTGCCCGCCA GAGACCTTTC TAAATGCAG ATTCAAGACT CTCCTCTCA AGCCACCCTA GTGGCCAGTG  
 GGGTCATTTC GGATCAGAGA TTCTGGAAT AGATCTAACT AAGATGGTAG ATATTATTTT AAATAATGCC TTTTINAGGA  
 ACTAGCTGCT AGGCTCT

SEQ ID NO:2084: (Length of Sequence = 255 Nucleotides)

TATTATACAG CATGTCAAG ATTATTGAC AAAAGGCAGT AACAGCCGA AGGAAAACAC ATTACAAGA AGCTGAACAA  
 CTGTATCAG AACATACATC AAGGTGAAGA GTTCGGCCC TCTTGGTATA GGTATGTAT GTGTACATCT CCAATTTTGA  
 ACAATGATGA CATAAGNCT AATACTCTAT TTATTCAGN GACCCATAA TCAGGATAAT AGTAGGCATT CAGAGTAATA  
 AAGTGATCAC AGTTG

SEQ ID NO:2085: (Length of Sequence = 290 Nucleotides)

GGACGCAGC TCGTGCCAT CACCGCTGGG TGGTTTTTTC CCCCTAAGCTT TTTACTTAGC CTTTTTGGTT TGTGTCCCA  
 CCCCCACCTC CTCACCCCT TTCCAGTTCT TCTTCAGGCC CTTCCAGAC GCACCCAGC GGCCCCGCA GCCCCGTCT  
 CCAGCTCCA GCTCACCTT TGTGCCAGA CTGCAATTG GAAGACTCA CCTCCGCCC AGGCCTGGGC TGTGGGCGG  
 TTGGAGATTG AGGTTTTAAT CCACACAAGC CCAAGTGAGG GGTGAAGCAT

SEQ ID NO:2086: (Length of Sequence = 342 Nucleotides)

AGTTTCATAT GTTTATTAAA CCAAGCATGA GGCCCTTCTG TGCACAGGGC CCTGTGTGAC GGCATGGGAG GCGTGCTCAT  
 GAGGCTGGGC GTGCCCGCCA GAGACCTTTC TAAATGCAG ATTCAAGACT CTCCTCTCA AGCCACCCTA GTGGCCAGTG  
 GGGTCATTTC GGATCAGAGA TTCTGGAAT AGATCTAACT AAGATGGTAG ATATTATTTT AAATAATGCC TTTTINAGGA  
 ACTAGCTGCT AGGCTCTCTA TCTGGGAGA AGAAGGTGAA GGTTCGCAA TATCAATTTT CCCAAGTCTG CCAAGATTTT  
 CCCAGCATCT NCAGGACAAG TG

SEQ ID NO:2087: (Length of Sequence = 306 Nucleotides)

TATTATACAG CATGTCAAG ATTATTGAC AAAAGGCAGT AACAGCCGA AGGAAAACAC TTTACAAGA GCTGAACAAC  
 TTGTATCAG AACATACATC AAGGTGAAGA GTTCGGCCCT CTGTGTATAG GGTATGTAT GTGTACATCT CCAATTTTGA  
 CAATGATGAC ATAAGNCTA ATACTCTATT TATTAGGAG ACCCCATAAT CAGGATAATA GTAGGCATTC AGAGTAATA  
 AGTGATCACA GTTGAATGAA CGTGTTCACC AAAAGTCTTA GACCAACCTG ATATCATCTT ACATT

SEQ ID NO:2088: (Length of Sequence = 326 Nucleotides)

ATTGAATAAC TTAGGCAATC TTCCACTTTC ACTGAAATGA TTAAGATCAG TTTACCGAAA GTCATTTCAT CCTTGCCCTG  
 CAGGCATCTG GCTATTCTTG GTGCAGGCT GATGGGAGCA GCATGCCCC AAGTCTCGT GGATAAGGGG CTAAAGACTA  
 TACTTAAAGA TGCCACCCTC ACTGCGTAG ACCGAGGACA GCAACAAGTG TTCAAAGGT AAGCCTGCTC TCTCTCTTG  
 CAAGAGTTAG AATGTCCTTT GTTCTTGGT TAGTTGTTTT TTGTGGGGC TTGGTGGGT TTTTGTGTTG TTGTCTTG  
 CCATCA

SEQ ID NO:2089: (Length of Sequence = 221 Nucleotides)

GGGTTTCCCT TTCCACTCAT CGGAGATTCA GAGGGATGAG CTGGCACCAG CTGGGACAGG GGTGTCCGT GAGGCTGTAT  
 CGGGTCTGCT GATCATGGGA GGGGGCGAG GCTCCCTCAT GTCTCTCTCC ATGCTGCTCC TGCGCAGGAA GAAGCCCTAC

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GGGGCTATCA GCCATGGCGT GGTGGAGGTG GACCCCATGC TGACCCTGGA GGAGCAGCAG CTCGCGAAC TNCAGCGGCA  
CGGCTATGAG AACCCCACTT ACCGCTTCCT GGAGGAACGA CCCTGACCCG G

SEQ ID NO:2090: (Length of Sequence = 293 Nucleotides)

TTATGTGGAA TACCACACGC CCTGGTACAT GGCTGAATC TTCCCTTCA TCCTGCTTGG GGTCTTCGGG GGCTTGTGGG  
GAACCTCTT CATCCGCTGC AACATCGCCT GGTGCAGGAG GCGCAAGACC ACCAGGCTGG GGAAGTACCC GGTGCTGGAG  
GTCATTGTGG TGACTGCCAT CACTGCCATC ATTGCCTACC CCAATCCCTA CACAGCCAG AGCACCAGCG AGCTCATTTC  
TGAGCTGTTC AATGACTGTG GAGCCCTTGA GTCTTCCAG CTCTGTGACT ACA

SEQ ID NO:2091: (Length of Sequence = 274 Nucleotides)

CTTTTGAAT GGTCAAACAA TTTAAGTCAA ATGTTTAAAT GGTGCAATTA AATAAGGGT TCAAACATGT TTTCAATATA  
TTAATTNCTT TAAAGTCATG TTCAGGCAAG GTGCTGTFTA AAAAACCCT ATTAGCTTTG TCCACACATG TAAGTTATCA  
AAAGTTACCA AGGTAATTTT GACGTTGAAT GCAGCTTTAA ACAATAAAAA AATGGTATTA GGTTTACTTC TCGAAGCAAA  
GAGAGCCCC AACCTTGTA ACTAAACATT CTGA

SEQ ID NO:2092: (Length of Sequence = 290 Nucleotides)

GGTAGTAGG ACGCTGGCCC TGTCCTCCGG CCGGCTCTGG TCAGACACAA TCATGGTCTC CACCACGAGG TGTGCAATGC  
CTGGNAGGGT GGTITGCTCC AGGTCCAGGA GGGCAGATCC ATGGGCGATG GTCTCTCTGA GCTCCAGAAG GCTACGGAAG  
GAGAGCGAGG CAACATGGGG CTTCCCCCAG CGCTCCGTCT CCTCTCCAC GTCTCTCTCA AACTTGATCC AGCGGGCCGT  
CTCCCGCCAG TGGGGCTCCT GGCTGCGGTC CAGCATCAGC TCGTTCAGCT

SEQ ID NO:2093: (Length of Sequence = 323 Nucleotides)

AGCTACACTG ATACAAGTGG ACCTAAAGAA ACGAGTTCCG CTACTCCGGG ACGAGACTCC AAAACCATCC AAAAGGGATC  
AGAAAGTGGG CGTGGGAGGC AGAAATCTCC TGCACAGAGT GACAGCACAA CACAGAGAAG AACTGTAGGC AAAAAACAAC  
CCAAAAGGC TGAGAAGGCA GCTGCTGAAG AGCCTGTGG AGGCTGAAG ATAGAAAGTG AAACCCCTGT AGACTTGGCT  
AGCAGCATGC CCTCCAGCAG ACACAAAGCA GCCACCAAAG GCTCAAGGAA ACCCAATATA AAGAAGGAGT CTAAGTCTTC  
CCC

SEQ ID NO:2094: (Length of Sequence = 255 Nucleotides)

AAGGATGTTT TGGTTCCTTG CCTCAAGGCC GGCCATGTGG GAGTTGTATC TGTGGAGTTC ATTGCCCCAG CCTTGGAGGG  
AACGTATACT TCCCATTGGC GTCTTTCTCA CAAAGGCCAG CAATTGGGC CTCGGGCTCTG GTGCAGTATC ATAGTAGATC  
CTTCCCCCTC CGAAGAGAGC CCTGATAACA TTGAAAAGGG CATGATCAGC TCAAGCAAAA CTGATGATCT CACCTGCCAG  
CAAGAGGAAA CTTTT

SEQ ID NO:2095: (Length of Sequence = 305 Nucleotides)

GCACTCCAGC CTGGGCAACA AGAGCGAAAC TCCATCTCAA AAAACAAAG AAAGAAACTN CTGAAGTCGG GGGCTGCTAG  
AGGATTTTCA GGAAGGGTCA ACACAGGCT CACTTCCAGT CCTTCATTTC CCAGCTCACA GAGTCACCAG AGGGTGAGAA  
GCAGAACGTG CCAGCAAAGA GGGAAAAGGC CACAGAACCA CTTTNTCTC AATTACAAAG GGGTGATTTT CAGAGGAGGG  
AATAGGGATG GAGAGGAGGA AAGACCTGC CCAGGAGCCA GATAAATTCA AAGTCACCAA GATGG

SEQ ID NO:2096: (Length of Sequence = 327 Nucleotides)

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CTAGATATAA CTACCCCTCT CTATTCCTCA CCTAAATCCT TATACTGCTG ATGACTTTGG AAAATAGTAC AGGGTTTAC  
 AGTCTAATCA TGACAATACA TCTCCAGGNT CCTTGAGCCA AATACATTCC TCAGAATACT TTTTTTAAAA AACTGAAATT  
 GATTACTTGT ACTTTGTCAT CACCAAAAAT ATCTGTAGCA AGACATACTG TTCTCAGCAT CCACCTCTAC CATCCTCACT  
 ATTGTAACTC ACAGTAGACT ATGCCTCCTA CTTTACTGAA AAGATACAAA CCATTACCTA GCAATCATTG TTCCACCTTA  
 AACATAT

SEQ ID NO:2097: (Length of Sequence = 296 Nucleotides)

CACCTGCTG AGGTCAATTT CGTCACTGAT GCCTGGGGTC ACATAGGCCC TGATGACCCA GATTTCACAC AGAGGTCAGT  
 ACATCGGTCA ACTTTCCTCC CAGGAGGGGC CGGGGCTGGT GGGCCATGCC CACTCCGTGC CACATGCCCTA GCATTTCAGAG  
 CTTTGTAAGG AAGCCCTGTT CTAAATGCTC AGGTCCCACC CTTCCCTTGTG AAGAGAAGCC ATGGGCTTCC TGCTCCTGTG  
 TCACAGTGTG CCACCTGAAG GGIGGCTCTT CCCATTCTT CTTCCATGGG GGCCAG

SEQ ID NO:2098: (Length of Sequence = 324 Nucleotides)

ATTGGTTTTN TTGAGTGTIT TCTCTTTTT NTITGTTTTT AACATACTTA CTGGGTATTA AGTCATGCAA AGAAAACAGT  
 GCAGACAGTA GATCCTAGTG GATGTGCCAA GGTATTCAC TCAGAGTCAA TCCCAGGGAA AGAGGGAAAG AGGAAAAGAA  
 AGAGAGAATG CGAACCCGAG GCTGCAGGAT GAGGCATGAA GAGTAGAAAT TCCCAGTGTG TTGCTGTGGT CATCAGACGC  
 CAGGGGAGA GAGGCAATNA AGACACACGC TCACGGGCCC CCCAGAGGTG GGTGGGGGT GCTGGGGGC GGCACACAGA  
 TATG

SEQ ID NO:2099: (Length of Sequence = 299 Nucleotides)

GAAACCGTCA GTAAGGAGCT CTTTATCTTT ACCTTCCCAC TCCAAACCTA CTTGCTAGCT GTTCTTATCA TTGCCTCCTT  
 TTCTCTGTC AAAAAATGT GTTCCATCTT AATGAACACA TTTCATTAAAT GTCCCTTCTTA ATGAAGGACA GTCCCTTTCC  
 CTGTGCTGTG AATCCCATAG TAATGACATT AGCTTAAGTT TTCTGAGCAC TTGCTATCTG CCAGTTCCTC CCATGAATTA  
 TCTGTCTTAA GCTTTCAGT ATACCTGTGA AATAGGTGGC AGTAGTTGTC CCACCATAC

SEQ ID NO:2100: (Length of Sequence = 308 Nucleotides)

GGCAGCTTAT TTTGGATTGG TTCACAATGT GGATCAAACA GGAAAATCTG TTATCATCAA CAAGACCAGC AGCACCAGAA  
 TTNCCGAGT CTTCCAGCAG TGCAGGCTCC TCAGGNTGCG TGTCGCCAC CCATCCACCT CTCCAGAGCA CACCCCTAGT  
 CTCAGGTGTG GCAGCTGGCT CTCCAGGCTG TGTGCCTTAT CCAGAGAATG GAATAGGGGG CCAGGTGTCT CCCAGCAGCA  
 CCAGCTACAT CCTCCTTCCA CTTGAAGCTG CAACAGGCAT CCCGCTGGG AAGCAATCCT TCTTTAAT

SEQ ID NO:2101: (Length of Sequence = 291 Nucleotides)

GATGATGATT GCATGGGGTT TGATGCTACA CTGGATCATA GAGTGTGGGT TCTTCTTAC ATGINTTGGT AGATAAATGT  
 CATAGACTGA TCCTGAATCC ACATCAACAG CATGGAATCC AGCAGAGGAT CCATAGATCA CTTTCAACCT CTGGCCTTCC  
 TCAACAGTGA GATCCACCAG TAATGGCTTA TGTACCAATT CTCCAAATGA CTTAAAGGCC ATAAATTTGG TGATATGGCT  
 TTGNGCCCA CGCATAGGAC TTCCACAGAA CTTTTCAAA GGCAATCACC C

SEQ ID NO:2102: (Length of Sequence = 323 Nucleotides)

GATGATGATT GCATGGGGTT TGATGCTACA CTGGATCATA GAGTGTGGGT TCTTCTTAC ATGTGTTGGT AGATAAATGT  
 CATAGACTGA TCCTGAATCC ACATCAACAG CATGGAATCC AGCAGAGGAT CCATAGATCA CTTTCAACCT CTGGCCTTCC  
 TCAACAGTGA GATCCACCAG TAATGGCTTA TGTACCAATT CTCCAAATGA CTTAAAGGCC ATAAATTTGT GATATGGCTT

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TGGTGCCAC GCATAGACTT CCACAGAACT CTTCAAAGCA ATCACCAGAA ATTTGATTCT TTCATATTTT ACAACTTTAT  
AAT

SEQ ID NO:2103: (Length of Sequence = 270 Nucleotides)

CCTTTCACCTC CCCCGCCCTG GGCTCTGCT CTCTTGCTG GNTTCCTTCT TTTTGAGGG AAAGAGGGTG GGGCTGCAGG  
CAGTCTACTG GCAGGACGGG AGGCTGAGTC CTCAGGGTCT CACACCTCA GTGCTGATGC CATGCCAACT GCCTGGGACA  
ACACCAACAC GTAAGGACCT AATTAAACCA AACCAGAGTC GGGTGTAGAC CAGCCCTGGG ATTTCCAGCT NTGACTNGGC  
CAGGGCACAC GTTGGTCTCG GCAGTGGCTG

SEQ ID NO:2104: (Length of Sequence = 367 Nucleotides)

CCTTTCACCTC CCCCGCCCTG GGCTCTGCT CTCTTGCTG GCTTCCCTTCT TTTTGAGGG AAAGAGGGTG GGGCTGCAGG  
CAGTCTACTG GCAGGACGGG AGGCTGAGTC CTCAGGGTCT CACACCTCA GTGCTGATGC CATGCCAACT GCCTGGGACA  
ACACCAACAC GTAAGGACCT AATTAAACCA AACCAGAGTC GGGTGTAGAC CAGCCCTGGG ATTTCCAGCT GTGACTGGGC  
CAGGGCACAC GTTGGTCTCG GCAGTGGCTG TAAGGTCACT TCCCTNCTC TGGATGCTGG TTTCAACCAT CTATATATGG  
CATCCAGCA TGGGATCTGC AAGCTGGAGC CCTCCTACCC GCAGCTT

SEQ ID NO:2105: (Length of Sequence = 288 Nucleotides)

GCAAAATTAC TGAACTACT ACTTTGGGCT CAGAACGAGC TGGACCAGAA GAAAGTAAAA TATCCCAAAA TGACAGACCT  
CAGCAAGGT GTGATTGAGG AGCCCAAGTA GCGCCTGCNC TTGCTNCTG GATCCAACAC CAGCCCTGCG TCGTGGGACT  
TGCTCANAT CAGCCTGCGA CTGCAAGATT CTTACTGCAG TAGAGAACTC TTTTCTCC TGTACTTTT TTTTGACCTG  
GNATCTTTT ATAGGAAAA ATGGCCTTTG TAGGCAGTGG AAAACTTG

SEQ ID NO:2106: (Length of Sequence = 349 Nucleotides)

GCAAAATTAC TGAACTACT ACTTTGGGCT CAGAACGAGC TGGACCAGAA GAAAGTAAAA TATCCCAAAA TGACAGACCT  
CAGCAAGGT GTGATTGAGG AGCCCAAGTA GCGCCTGCNC TTGCTNCTG GATCCAACAC CAGCCCTGCG TCGTGGGACT  
TGCTCAGAT CAGCCTGCGA CTGCAAGATT CTTACTGCAG TAGAGAACTC TTTTCTCC TGTACTTTT TTTTGACCTG  
GCATCTTTT ATAGGAAAA ATGGCCTTTG TAGGCAGTGG AAAACTTGCA AGGAAAGCTG CCGTCTCTTT TGGCAGTCTT  
GATGCAGAGC CTGCACTCTG GCACTCGCT

SEQ ID NO:2107: (Length of Sequence = 329 Nucleotides)

GTGACAAGCT CCAGAAGCCC GNTCGCAAC ANCCAGGAGG GCCAGGCCAC TCCAGGCAGG AGGCAGTGGG CTGGCAGCCA  
CCCTGGGCAC AGAAGAGCAG ACGCAGACAG TGCTGGGCAA CGAGGGGCTT TTTTCATGGG CCCGCTGCG CTGTCCCTCC  
CCCCAGGTCC CCACCTTCTA GGGTTAAAGT GCAGCTGGGA GGGAGGAGGC AGGCAGAATT NGGAGCTAG AGAGAGCCCA  
AGTGAACCTT GACTGTCCAC GCAAGTCCA TGTCCTCTC GTCTTGAGT TCCTCGAGGT TCAGCGAGCC CATCCGCTT  
AGGGCTCTT

SEQ ID NO:2108: (Length of Sequence = 261 Nucleotides)

TTTTCATGGC AGCCTGAGCA GACTAAGACA GCAGCTAACA CAGCAAGATC ATACCAGTTA ACCTTCTCTG TTAGAAGACC  
TGAGCCTCCT GACTTCGGT CACTGGATAC TCTGTINAG GCTCATGATT TAACTCTA TCTCACTGCT GGCTTGGAAA  
CCTCTAACTC TCTCTGCTC TTGACAGTGT TCCTCAAGG GAGTCCATTA GCCAGGACTA GTTACATGC CCCTGTGTTA  
GCTGTAGGG ACAAGGCAGA G

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SEQ ID NO:2109: (Length of Sequence = 329 Nucleotides)

TTTTCATGGC AGCCTGAGCA GACTAAGACA GCAGCTAACA CAGCAAGATC ATACCAGTTA ACCTTCCTGG TTAGAAGACC  
 TGAGCCTCCT GACTTCGGT CACTGGATAC TCTCTGTTAG GCTCATGATT TAAACTCTGT AGTCACTGCT GGCTTGAA  
 CCTCTAATC TCTCTGCTC TTGACAGTGT TCCTCAAGG GAGTCCATTA GCCAGGACTA GGTACATGC CCCTGTGTTA  
 GCTGTGAGGG ACAAGGCAGA GAAATACTG CCCAAGTTCA GCTTCCATA ATGTTTGGGG GATGCTATGA CTCAACTTGT  
 ATCTATTTT

SEQ ID NO:2110: (Length of Sequence = 271 Nucleotides)

GGCTTGAGCA GACAGAACGG GGAAGACTCC ACTCTGTCCC GAGGGGCCAG CCGCAGTTG CCCAGGGCCA CCTTGCCCTG  
 AGGTCCTTGT GTGGCCGCC TGGCTTGGCA GCCCTGCCCA CGCTGCCCC GCAAACAATG GTGTGTGGT TTTTACAGCC  
 CTTTTAGGA ACCCAATATG GGCATAATG TAACACCTGT AGCGGGGCA GATTCTCTGT ATGTCAGTT AACAAATTAT  
 TTGTAATGTA TTTTTTGA AATCTTAAA T

SEQ ID NO:2111: (Length of Sequence = 315 Nucleotides)

GGCTTGAGCA GACAGAACGG GGAAGACTCC ACTCTGTCCC GAGGGGCCAG CCGCAGTTC NCCCAGGGCC ACCCTGCCCT  
 GAGGTCTTGT GTGTGGCGCC CTGGCTTGGC AGCCCTGCC ACGTGGCCC CGCAAACAAT GTGTGTGGT TTTTACAGC  
 CCTTTTAGG AACCAATAT GGCATAAAT GTAACACTG TAGCGGGGC AGATTCTCTG TATGTCAGT TAACAAATTA  
 TTGTAATGT ATTTTTTAG AAATCTTAA ATTCCTTGT CACTGAAGTA TTTTCATAGC TGTTTATATC TCTTT

SEQ ID NO:2112: (Length of Sequence = 275 Nucleotides)

GCAAGANAGA CCAAACCTA ACCTGAGTTA CAAGAAACAA GACAGTAATG GCTATAAAGG GAGTGACCAG GAGCAACTGG  
 GACTTCCTT TACCTCCCAT ATCCAATGTA TGINTTTCAC AGAAAAACAA CAAATTAAC AAATTCACAA AATACAACAG  
 CTAGAATTAC AAAATCCATT CATCCAAGGG TGGTAGAAGG CAGGATGGNA AGGTGGAAGG GTAAATNGCA CAGGGAGAAA  
 AACAAAGTGT TCCAATCAGT CCAGGCACAG GGAAT

SEQ ID NO:2113: (Length of Sequence = 227 Nucleotides)

GGCGCATCAG TGGGGGGTGC TGTCAAAATT AGTGAAATCA GATACAGTTG ATGGGCAGGG AGGGTGGGGT AAGAGACAAC  
 TCCAGTGCA TGCAGGTGG GCAGGCTCCC ACTGTTCCT TGAGACGCTC CTCCCCTC AGGTGGGGAC AGGGGACACA  
 CTCGAGGGC AGGGCATTCT GGAGGTGTGG GTACAGGTGA GGGGAAATGG GAGGCACAGC CAGGAGT

SEQ ID NO:2114: (Length of Sequence = 339 Nucleotides)

GGCGCATCAG TGGGGGGTGC TGTCAAAATT AGTGAAATCA GATACAGTTG ATGGGCAGGG AGGGTGGGGT AAGAGACAAC  
 TCCAGTGCA TGCAGGTGG GCAGGCTCCC ACTGTTCCT TGAGACGCTC CTCCCCTC AGGTGGGGAC AGGGGACACA  
 CTCGAGGGC AGGGCATTCT GGAGGTGTGG GTACAGGTGA GGGGAAATGG GAGGCACAGC CAGGAGTGGG GCAGGAGGGA  
 AGGCCAGTTC GTGGCAGGC TGAGGAGGGA ATATNACCCC CCTCAAGTCC CCAAAGTGGC AGGCAAGTTA AGGGGCCCTG  
 GATGAGGTGG CCCCTCATG

SEQ ID NO:2115: (Length of Sequence = 262 Nucleotides)

TGGAACACAA AATCCCTGT NTTAACATTG TACATTGGG GCTATCTGC CTTGAGGAT GTCCTAGTTA CACCTCTCT  
 GATACCTGTG GAGTTTAAAG ACCATTCTA CCTCTGTCTC CTTTGGAGG GGTGCACTG GAAGTCTTA AGGGGAAATG  
 CTTGCTCTGC CTCGTGGCT TTTTGTGTG GAAAGGGAGT TNGGATNGA GGATTAGAT TINAGTTCAT GATGTCAGAG  
 CACACCAGGA ACTCCCAAGG CT

SEQ ID NO:2116: (Length of Sequence = 153 Nucleotides)

AAGAAGCGAA GAGGATTCTG GAGCTGGAGC AGCGCAANAC ACGGTGCTGG TGACAGAACT CAAAGCCAAG CTCCATGAGG  
AGAAGATGAA GGAGCTGCAG GCTGTGAGGG AGAACCTTAT CAAGCAGCAC GNGCAGGAAA TGTCAGGAC GGT

SEQ ID NO:2117: (Length of Sequence = 231 Nucleotides)

GAATATAATG TGTATCINCA AGGNTGATC CACCCTTNC CATCTNTGG AGCTCAGAGA TTCTTGGGAG CTGAAGGTCT  
TCTTAATGTC AGATCAGCAA CCCCAATCTC AGGCAGCTCG GATTCGCTGC TCTCGATCTN CCGCTGGCCA ATGTAAAACC  
AGACGCAGGC GACCCAGTGC GCGACAGGGC GAACACGGCC ATGAGCAGTG TCAGCACCAC GCGCTGTAC T

SEQ ID NO:2118: (Length of Sequence = 309 Nucleotides)

CGGGAAGAA CAAATTGGAA TGGTGGGGA TATGGGTGTG TGGTGGGGC GGGGCAGGAG GTCTCCGGG GTCCAGCATG  
GGTCGGGAGT GGGAGCAGGA CAGAAGGTGG CCACGTCACA GCGACTGAT GCTCAGCTCA AGGGGAGTGT GAAGAGGTG  
GCAAAGAGCT GGGGAGCCGG GCAGAGGGAC AACACTGACT NAGGACATTN CAGTTGGGAA TCAGAAAAA AGGGGCAGCT  
CAGGGGCATC TGATCTGCCT CATTTTGA AAAGAAACAG AGTAATGTAC AAAATTCTGG ATATCTTCT

SEQ ID NO:2119: (Length of Sequence = 308 Nucleotides)

GGTAATCGTT GAAGATTACC AAAGGTTTAT TTGGAATGAC ACAGCACTGA AAACATAATT GTTACAGATG ATTGTGGAT  
ACAGCATACA CCATCTATTT TACTTTAGAA CAATCTGTGA AGATGAGTTG CATAAATAGA AAGAGGTGGA AATATAGAGG  
AGCTGTTTTT ATAGTGTCT TTTGGGGTA GATGAATATG CCCCATCTTT CTACCCAATC TCATAAAGGC AGAAGAGAAG  
ACTGCTTAGC TGCCCATCCC AACTAGCCTA CCTCCAGCCA CAGCGGCTGG ACAGCTAGAT AAATCAGG

SEQ ID NO:2120: (Length of Sequence = 237 Nucleotides)

CCGCTCTCTT GACGGGAGCC CACTAGGGGG TCCTCTTTCA TCTTTGGTGT GGCCTTACCT CCCACCAAG AGATCCGAGG  
CTTACTCTTC TCTCTCTGG ACCAGCATGA CCCAGGAGTC CTTCAGGAG AGCTCTGTGA AGGAGCTGAG GCGGCTGGAG  
GACCAGCTGG CCGGCTGCA GCAGGAGCTG GCGGCTCTGG CACTGAAGCA GAGCTCGGTG GCGGAAGAAG TGGGCT

SEQ ID NO:2121: (Length of Sequence = 224 Nucleotides)

GCGTCAGAG GCTGAGGCCA GAGAGGTAGC AGCGGAACIN ACAGGGAGGC CAGGGGCAGA GCTGACCCTG GAGAGGGATC  
CTNATGCTCT AGACACATGG TTTTNTCTG CCCTGTCCC CTTTNTGCC CTGGGCTGGC CCCAAGAGAC CCCAGACCTT  
GCTCGTTTCT ACCCCTGTN ANTTTGGAA ACGGCAGCG ACCTTCTGCT GTTCTGGGTG GGCC

SEQ ID NO:2122: (Length of Sequence = 202 Nucleotides)

CAGCTGCAGC TTCCAACCAA GAAAACCTCA AAGCATTAGG GAAGGAGCAG GTGTGGGGCT GGGGTGGGGA GAATCCCCTA  
AGCTCCAGG CCCAGGGTCT AACCTGAGAG GTCGGGGCTG CAGGAAGCTG GGGGAGGCTC CCGGGGCTGG GGAAGAGGA  
GCCTGCCCC AGCAGAAACA GCAGGTCTCA GCGGTACAT GT

SEQ ID NO:2123: (Length of Sequence = 359 Nucleotides)

ATTCTCTCT GTTCTCTGA TGTGTAGGA AATTCTAGA ATGACTCTGA TAAAACTA AAAGAGAAAC ATCGAATCCT  
AACTGGCTGT GTGACCTAA AACCTTACTC GGTCTCTTG AACCTCAGAT TTCTCAGGEC TTGGCACATA GCAAGCATT  
CATACTCAGA AGCTGGTACT ATTACTGTTG TGTTTGTGG GGGGAGGTTT GTTTGTTTTG TTTGGAGACA GGATCTGGCT



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TTGTGCCCC TGGCTGGAGTG AAGTGGCGCC ATCATAGCTC ACTGCAGCNT GGCCTCCTG GGCTCCAGCG ATCCTCCCGC  
CTCAGTCTCC CGAGTAGCTG GGACCACCTG CGGATGCCG

SEQ ID NO:2124: (Length of Sequence = 233 Nucleotides)

GAAACGCCGT GCATCTCTTG TCTGTGGCA GCGAGCACAT CGTNTGGAGA CACGAGTTTC TAAGCAGCTG GCACGAGGGC  
TGCTGACGCG ATGGGTCTG CTTGAGGGTG GCAATACCTC TTAGGAACCT AGGGCAGGAA GCAATACTTC AGCATGAAT  
GTGTGTAAT AGTTGCTTTG AGTTGCAATT GCTATTNCT TCTAGTCCC AGCTCAGATC GAATTATATA TCC

SEQ ID NO:2125: (Length of Sequence = 241 Nucleotides)

GCCATGGCTT TTGGTCAGGT TCAGGGGGG TGAGGGGGTG CTCTCCCTT CCCCCAGGC ACTGACACAT TGAAAGGAAG  
CAGAGCAACA ATGACACAGC ACGATGTGG GAAAGGGGAT CCCCCAGCG GGCAGGATGG TCCATCTCAC CGGGTCTCA  
CCAGGACTCC CGCTCCAC CCAGGGCCAG CACGAGCACC TCCGTTTTT TCCCACTGC AGAGCGTGGG GTGACAGGAG  
T

SEQ ID NO:2126: (Length of Sequence = 275 Nucleotides)

GTGTGCCCTC TTGCTGTGTC TTACTTCATA AGGAGTTGTA TCTCCACC TGCATTTCAA TACTGCCGT TAGGACCTAA  
GTAGAAGAGC AGTAAAGCT GATTGACACA CAGGGGGATG GAGTTGGTCC TTGTCCATTC TCTACCTT GCTGTGATG  
TATCAATCTT TATCCAGAA GGTACTATTT AGACTGTATA GACTGATTTA GATTACATAC TTAGAGGAT TAAGGAAACC  
ATAGAGTTTG GGCCTTGGAA CTGTACTGC CTGT

SEQ ID NO:2127: (Length of Sequence = 296 Nucleotides)

TTCAGCCTTA TCGAAACACA TGAAGCAAAA CCATTGAAAC TGATGTGTA CAACACAGAC ACTGATAACT GTCGAGAAGT  
GATTATTACA CCAAATTCG CATGGGGTGG AGAAGGCAGC CTAGGATGTG GCATTGGATA TGGTTATTG CATCGAATAC  
CTACACGCC ATTTGAGGAA GGAAGAAAA TTINTCTCC AGGACAAATG GCTGGTACAC CTATTACACC TCTTAAAGAT  
GGTTTACAG AGGTCCAGCT GTCTCAGTT AATCCCCGT CTTGTACC ACCAG

SEQ ID NO:2128: (Length of Sequence = 322 Nucleotides)

GCATGGGAGG GAGGAAGAGA GGTGTTGGGT GCGGTGGCAG GTGATATAGG GAAAGGGCTC ACGTTTCAGA ATCTGTGAAC  
AATCCATTT TTATCAGAT AGCAGAACA CTACAACAGC AAAACCTAGA ACATCTCAGA CAGCAGCTT TGGAGCAGCA  
ACAGCTCAA AAGGCACTC CTCAGGATAG TCAGGAAGGA ACCTTTGGGT CAGAGCATTC AGCGTACCA TCACAAGGA  
GTAGTCAGCA GCATTTCTT GAACCTGAAG TCAATTTGGG ATGATTCCAT AGATATTAG CAACAGGATA TGGATATAGG  
AT

SEQ ID NO:2129: (Length of Sequence = 222 Nucleotides)

TTTAGTGGGT CTGGGTGGG CGCGCCCCC GGCTAACGG GGGGTCTCC TCTCTAGGC GCAGGAGTGC GCGGTCTCT  
CCAGGCTCC CGGCTAGGT GGAGGTGAC ACGCAAAGC ACACGTCCT ACGAGGCGG GGCCAGGGG GCACAGCCC  
CTCCCAGAT GGAAGTGCC GGCAGACAGC TGCCCAAGAC CTCAGAAC AAAGATGAC AT

SEQ ID NO:2130: (Length of Sequence = 191 Nucleotides)

GTGGGATCTT TTATTTCACT GTGGGGGGA GGAACCTGG ACACCGGAG GCACGCGGG TGGGNGGCTG GACTCAGGC  
GGGGACTAGG CAGGGGAAGG GCTGCCCCA GGCTGTGTA GGAGAACTN AGGCCAGCCC TGGCGGAGAC CTAGCCAGC  
GGGTAAGGA GGTGGGGGA AACTGGGTC T

SEQ ID NO:2131: (Length of Sequence = 280 Nucleotides)

CTGAGTCTTG TCGATCCCGA CCAGGAAGAG CAGCTCAGCC AGGAAGAGGT TGATGCACAG GTTCTTGTTG ATGGTGTGTC  
GGTCGGTCTG CAGCCCCCGC AGAAGCAGAA GGTGGAGATG CAGATGGCCA AGCAGACCAG GGAGATCACA ATGCCCCACC  
AGGTGATGAC CGACAGCAGC AGCTCGTTGA TCGCGCCCTG GTAGATCTCA CGGTGAGCCA TGAGCACAGC GAAGTTGGTG  
AGGTGGCTGC AGGCACACGT GGTATGGGTC TTGTTGGACT

SEQ ID NO:2132: (Length of Sequence = 201 Nucleotides)

ATCCCCACAC CATGTCCTGC TCCTCCCATG GGGCTTTAGC TCCCCTGACC ATCTGCTCAT GTAGCCTCTG ACTGGGCGCA  
CAGTGGTGCA GGAGGAAGGA CCGGAACCC TGTGTGGCTT TGGCAAGCT GACAAACCG TCTGGAATC AGTTTCCCCA  
GCTGTGAAAT GGGGCCAGTC CCCATGCCCT GCTGTCTCC T

SEQ ID NO:2133: (Length of Sequence = 180 Nucleotides)

GATGAAATG TTGTGACCAG AGGCTTGCCA TTNCTAACT CTATTTGCCA GAGGAGCAAT AGTTCTGTAT TCCTAATTT  
TGTGTTTACA GAGACTTTAA GGAACATGAC TGTGGAAT AACAAGAATT AAAGGTATTT ATTTACTTNC TCTATATGAT  
TGTAATATTA TACCCATACT

SEQ ID NO:2134: (Length of Sequence = 302 Nucleotides)

ATGAACAAAC GGGACTATAT GAACACTTCG GTACAGGAGC CCCCTCTTGA CTACTCCTTC AGAAGCATCC ACGTCATTCA  
AGATCTGGTA AATGAGGAGC CAAGGACAGG ACTACGACCA CTGAAGCGTT CAAAGTCGGG GAAATCACTG ACCCAGTCCC  
TGTGGCTGAA TAACAATGTT CTCAATGATC TGAGAGACTT CAACCAGGTG GCTTCACAGC TGTGAGGCA CCCAGAGAAC  
CTGGCCTGGT TCGACCTGTC CTTTAATGAC CTGACTTCCA TTGACCCTGT CCTAACAACT TT

SEQ ID NO:2135: (Length of Sequence = 291 Nucleotides)

TCTTACCAAT CTGACATTCA CTATCAACCA CTTCTTGACA CATGTCATAG AAAAGTGACA TCTCTTTCCC TTCAACCAAT  
ATATCCTCCA ACAACATCAA CCTCAACAGG TAGCTAGCAT TGCTTCTGT TGAAATTTAG AGCTGGAAGA AAGGATTTCA  
CAATCTCTCT GTGGAGACCC AGGAATCCGT TACCTTCTGG GATTTTAGAG AGTGTGGAGA GAGATGAGCA GGCAGTGAGC  
CGGGGACCAA CTCGATAAG AATATGAAGT CAGGAAGTGA GAGAGGAAC G

SEQ ID NO:2136: (Length of Sequence = 282 Nucleotides)

GCTGTACAAG GTCTTTTCT TTGTTGTCAT GGTGATTTT GTACATTTCA GCATTTGCAT CATACAAAG GGGGAGCAAC  
AGCCATGGCT TTTGGTCAGG TTCAGGGGGG CTGAGGGGGT GCTCCTCCC TCCCCCAGG CACTGACACA TTGAAAGGAA  
GCAGAGCAAC AATGACACAG CACGGATGTG GGAAAGGGGA TCCCCACGC GGGCAGGATG GTCCATCTCA CCGGGGTCTC  
ACCAGGACTC CCGCTCCCA CCCAGGGCCA GCACGAGCAC CT

SEQ ID NO:2137: (Length of Sequence = 322 Nucleotides)

GAATTGACAA CATATTGCCA AAATCTTAGT GGATTTTGCC AACACTATTC TGCTGATAGG AAAAAAGAAT CATTCAGCTA  
CTTTCCAATT TAGCCACAAA ATAGGCTCTT TTTTCTTCAT TACTACTTTA ACCAGTATGT TAATACTGAA AATAGGTATA  
AAGAAATCAC AAATAACCTT CTTCTGTTTG AAGGAAATTT AAAATAGCAC ACTTAAATG AAGTNAAGG CAACTTTAAT  
TCACTACTGT AATTTTAA TGTCTGTATC ATGTAGTGT TGACAGTTT TAACCTTAGT TTACCATCTC TTACTCTTA  
GT

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SEQ ID NO:2138: (Length of Sequence = 305 Nucleotides)

ATGCTGAGTC GCAGTCCGA TGTTCTTATG CTTCATCAG CAAATCTCAA TTTGTCAAGA TTCATGACAG ATTCTTCCCC  
AGCGTTTGGT TTAATTGGAG GGACTTTATC TCCAGGCTTG CATGACTCTT CGATGCTCAG GGCACATGCC CGACCAAGA  
CAACCAGGTC CAAGAGCGAG TTINCCCCGA GCGGTGTGGC ACCATGTACC GAGGCACAGG CGGCTTCCCC ACAGGCGTAC  
AGGCGGGGCA CAATCTGATC CTGGCCATTC ACGTGCTCA GGACCTGCCC CTGTAGTTG GTGGG

SEQ ID NO:2139: (Length of Sequence = 263 Nucleotides)

CGGCCCCCAG CAACAGCTTC AGCCCTCTCC ACCAAGCTTG CCATCAAGGA GATTGCACCA CTGCACTCCA GCCTGGGTGA  
CAGAGTTAAG ACTCTCATGG GGACTACT GTTCAAAAGG CCGTGGCCAA ATAATCCCA AATGAAACAC TCAACCAAG  
GATGTTTTCA GCCCACTGTT AGTGAAGCTG GGTGCAGAAT GCAAAGCCTC TAAAGGAGA GGATACAAAG TCAGGTGAGT  
AGGGGCCATT GGCAATGCTC AGA

SEQ ID NO:2140: (Length of Sequence = 255 Nucleotides)

CTGCTTCANT CTGGCCCCCT CAGCTGTGGC TTCCCGGCAT GCCCTGTGAC CCCAAGCCGC AGGTACAGGA AAGAAGTTTG  
TGCTGGGGGA CTCAAAGACC CAGAGTTAA TTAACAGGAA CCAGGGCCAG GGGCTTCAT CTAGAGGTCA GTGGAGTCTC  
CAGGGCACTC ATCACTGTGG CTGGGAGACT ACAGTGTCTC GGCTGCGGAC TTGTGAAGA AGAGGGGAA GGATGGGAGA  
AGGGGTGACT GGATG

SEQ ID NO:2141: (Length of Sequence = 355 Nucleotides)

TTTAATTAAA TACCACTTCA TAATGTTATT TGCACCTAGT ACTTTTTTTT TTTAAATAA GACATGCCAT AAGTCGTGAA  
GTTAACAAA TATAAGCATC CGCAGAAAT ATATTCTAAG GTGACTTCAT TTACACCGCT TCTCAGAGAA ACACACAAGT  
AACCTTTTGT CTGCCTATCA GCCAGTGTG AAACAGCTTT GGAATTCACA TGGAAGGCTG CCGGCTGCTG TCCCCAACAC  
TNGCCTGATG GAGTCCGTGA TCCGNACCGT GCCGTCAAAC TGCTGGTTT CCACTAGAAA AGCAATGGAG AGTCAGCTCT  
CCCTCTTTA CCCAGCGTTC AACTCCACAC TGCAA

SEQ ID NO:2142: (Length of Sequence = 391 Nucleotides)

CTGCTAAGTG CCATGAGACC TTAGCAGAGG CTGTGGGTGC CCGCCCCAT TCCCTCCACT CACTCTTCT TGCAGGTGCA  
CCTGCCCTTC TTTGCTGAGG CCTTTCTCTG CCTCCAGAGC CTGCTTGGTC CTCAGGCTGT AAGTGCAGGC AGAGCTAATG  
TCTCTCCATA GCTGCCCTCC ACCAGCCTGC TCCGAGACA CTGCTGGCC AGCAGCCTGA AGCAGAAATCC TTTACTCAGA  
TTCAGCCGCA CAGATGCTCA CTGAGAGAT CTCCAAGNC TGTGGTCAAT CTTGAGCCCA TCTCAGATT GTGTGGATAG  
GGTGTTAGAG AACATGGAAT CAGCTGGATA GAGTGGTTCA TGCTGTAAAT NCCAGCACTT TTGGGAGGCT T

SEQ ID NO:2143: (Length of Sequence = 326 Nucleotides)

GATGCAGAAC AGCTTCTTGC AGAAGCACCT GCTCOGGCAT CCAGOGCTGC CTGGAGGCAG GAAGGAGAGG CAGGGCAGGA  
CAGCTGTGTC TGAGATGAGG GGGAGCCCCA CGGCCCCAG GCAGGCTAGA GGAGGCACAG GCGCTGCCAC GGCCAACTCA  
GGTCAGCCAG CTTGAGGCTG TGGCTCCAA AGGTCTGGG CGCACCCCC AGGTGCGAGG TINTGAGGC CAGCCAACTT  
GCAGAGCACT CGCGGCTGG GTGGCTGAG TGGAGGTGCC TGGGAAGCTG CCTAAATTC GAAGCCTCCA CTGCCATGG  
AGACTG

SEQ ID NO:2144: (Length of Sequence = 357 Nucleotides)

GCACGGGCC CCAGGAGCCC ATCAGTGACA GAGTGCTCCA TGATGATGTC CTCCACCCGG GTGATGTACA GCAGGTCAN  
AGCACCCCCA GGAAGTGGGA NAGCAGGATG CCCAGGAGGA TGCCCGCCAT GATGGTGTAG TTGTCCATGA ACCAGATGAT

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CACGCGTTG GTGCAGCCCC GCACGTAGAT GACATCTGC AACTGAAAC GTCCTTGTC GATAGTTTN TAGCCACACA  
 TGGTGTGAC AACTCTGTC GTGTTCTGA TGCAGCAGGT GTAGGGCACC CCACAGGCCA GGGGTCCAGG GGCAGTGCAG  
 TCGTGGTACT GATTCTTGCT CCAATCTCGG TAGTCT

SEQ ID NO:2145: (Length of Sequence = 420 Nucleotides)

CGCCAGGAGC TGCTAGCCAA AGCATTGGAG ACCCTACTGC TGAATGGAGT GCTAACCTG GTGCTAGAGG AGGATGGAAC  
 TGCAGTGGAC AGTGAGGACT TCTTCCAGCT GCTGGAGGAT GACACGTGCC TGATGGTGT GCAGTCTGGT CAGAGCTGGA  
 GCCCTACAAG GAGTGGAGTG CTGTCAATG GCCTGGGACG GGAGAGGCCA AAGCACAGCA AGGACATCGC CCGATTCAAC  
 TTTGACGTGT ACAAGCAAAA CCTTCGAGAC CTCTTTGGCA GCCTGAATGT CAAAGCCACA TTCTACGGG TCTACTCTAT  
 GAGTGTGAC TTTCAAGGAC TTTGGCCAA AGAAAGTACT CAGGGAGCTC CTTCGTTGG ACCTCCACAC TTCTCAAGG  
 CCTGGGCCAT ATGTTGCTGG

SEQ ID NO:2146: (Length of Sequence = 390 Nucleotides)

CCCAATACT GTTCCCAA CTATGTCGGG CGGCCGAAGC ACATGCGGT NATGGCTGGA GCCCTGGAGG GGGACCTCTT  
 CATCGGACCA AAAGCAGAGG AGCACGGGG GCTGCTGACC ATCCGCTACC CCATGGAGCA CGGCGTGGTG CGAGACTNGA  
 ACGACATGGA ACGCATCTNG CAGTACGTCT ACTCCAAGGT TCAGCTGCAG ACCTTCTCGG AGGAGCATCC TGTGCTCCTC  
 ACGGAGGCC CGCTCAACCC GAGTAAGAAC CGGGAGAAGG CGGCAGAGGT GTTCTTTGAG ACCTTCAACG TGCCGGCCCT  
 GTTCATCTCC ATGCAGGCTG TTCTCAGTCT GTACGNAACA GGACGCACGA CAGGAGTGGT TCTAGACTCA

SEQ ID NO:2147: (Length of Sequence = 219 Nucleotides)

TTTGTTGTG GAGAGAACT GGTGTTCTGC CCGGCTCTGC TTGGTCACAG ACAGCTCCAG CAAGAGCAGT TGTAAAAGT  
 GCCAAGCGTG TGTATCACTG TGACAAGCCG TTGCTTACT GCGCTGTTCC CTTCAGCCA AACCAGCTGA TGAAGAACTG  
 CTGCCAGNG GGTCTACAG CAGGTCAAA ATGACCTAGT TTCATTTAA GCAGACAGA

SEQ ID NO:2148: (Length of Sequence = 353 Nucleotides)

GAAATCTTTA TTACAAAAT ATTTTGCAAG CCAAAAAGTT TAAGTTGCAA CTATATACAA AATGGGGCCT GTTTCCTTCC  
 CAGCAGTCTT AAAATAAACT CCTGAAACCA TGCTCCTTCC GCAGGTGGT TCGACCTCTT CCTTTTCTG GGGTCAATA  
 CACAAGGTAT GTGGATTCTC CAGGTGCCA GGCTAAAGCT AAAGCTATAC ATCTTCTTG GCCTTATTCC CTTATTCC  
 CCTCAAGAA TTAATAAATA AAATAAATG AAAATGGCAC CAAGAAAACA TTCCTTTAA ATACTGAATG TGTGTGTGCA  
 TGGTGTGCA CAGTATGTC CIGTCTCTG GGT

SEQ ID NO:2149: (Length of Sequence = 394 Nucleotides)

GGGAGACTT TGGGCTTTN TCATGACTGT TTGGTGGAA GGTAGCTCAA GTGTGTGTGT GTGTGTGTGT GTGTGTGTGT  
 GTGTGTGTGT GTATGTGTGT AAAGTGCTAA GAACTGTGCA TTGACATCCA AACATTTCTT GTACAAAATT TCCCTAGCAA  
 AGCAAACCTG CTTTGACTTA ATTTATTTGT TAAATGTTGC ACTTTGTTTA TGTATGTTTT GTTTTTGGTG GGGATAAGG  
 AGAGAGAGGA CGACAAATTC TATTGAAGTA TTTATTTGT GAAGATGGCA ATTTTGCAAT TGTTTAAATA TTTTTCATTC  
 NNTTAATTTT GTTATCAGTG CCAGCCCAAN ATACCTGCTC TACCATTAAAT TTGCGGCCT GATAAAAAGG GTCC

SEQ ID NO:2150: (Length of Sequence = 200 Nucleotides)

ACCTCCCTGG GCTCGGAGA CGCTGACAGC TGGGAGACA GCAGCTCCGT CAGCAGCGC ATCAGTGACA CCTAGACAA  
 CCTCAGCACT GATGACATCA ACACAGCTC CTCCATCAGC TCTTATGCCA ACACACCTGC CTCCTCTCGA AAAAACCTGG  
 ATGTGCAGAC TGATGCTGAG AAGCACTCAC AGGTGGAGAG

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SEQ ID NO:2151: (Length of Sequence = 369 Nucleotides)

GTGCGCCCCA GTCTTCTGA AACCTGINAT CACACTTOGG GCACTGTCCC CTCTACAGTC AATCTGTGTT TTCAGAAGTG  
GCCCCAGGTT CACTCGTCTT ACAGCAGTCC TAAAGAGCCG GCTGCCCTTT CCCTAGGCTT CTTGTCTCTT NAGGGCTAAA  
TTCCAGCCCT CCTACCCAG TGCCACTTGG GTAAAAATAC TCTGCTCTC TCACGTTTGC TAATAAGCCC GGGCTCCGAC  
TACCACCGTT CGGGGAAGG GAGCCCCCTA CCGTCATTGC TGGGTCCGCT CCGGGAAAC ATGTGCCGGA CCTGACTTGT  
GCGGCGGCAT CTTTCCGGA ATGCGTTTTT TGTTCCTTC TAAGGGTGT

SEQ ID NO:2152: (Length of Sequence = 312 Nucleotides)

TTCAACAACA AATTGTGGGA GAAACACACC TTCCAGCAA TAGAAAATCT CTATAAGTG CATTTTGCCT GCAACCATCT  
CTTCCCCATG CTGCCCTTG GGTGAGGATT TGAGGCACTG TTCCGAGGGA GCCCTCAGGG CCACCTGAGC TGGGAGAAGG  
GAGGCATGAA GCCACCATGG AGCTCCAGGC TACTGGACAT ACCCTCTCTA CCTGCCCCCT CCGTNTTGGC TCCAGGAGTG  
CACTGCCTGA CTCCACTGCG AGGTGATCT GGGAACGGGC TNGGCATGCT AGGGATGGTG GAGAAGTAGG CG

SEQ ID NO:2153: (Length of Sequence = 325 Nucleotides)

CCCAGACCCA GAATGTAAAT NAGGCCAAAA TGGCCACTTC CCAGGCTGAC ATAGAGACCG ACCCAGGTAT CTNTGAACCT  
GACGGTGCAA CTGCACAGAC ATCAGCAGAT GGTGCCAGG CTCAGAATCT GGAGTCCCGG ACAATAATTC GGGGCAAGAG  
GACCCGCAAG ATTAATAACT TGAATGTGA AGAGAACAGC AGTGGGGGAT CAGAGGCGGG CCCACTGGC TTGCAGGGAC  
CTGGNGGTCT GCACCACTTC CAGTGACCAC TTCAGAACCC ACCTNGGNGC ACCCCCCAAT GTCTCTGGC AGACGGCATT  
GGCTT

SEQ ID NO:2154: (Length of Sequence = 326 Nucleotides)

ATCATTTAAT TAACATCTTT AAATGAAACA CAGTTTCTT CATGTGTCTC ACTCAGGCTT CAGGGCAGAG GGAATGGATT  
TTTAGACATA TCAAGACTC AAAAATTTAA AGAAATATAT ATATGTATAT ATATACTTCT AACATTTTAT GGAATTTAA  
AATCAGAGGC TTTTGGTCTC TCCATTTACT CTAGGTCAAG CTCATTTACC CCAGAGGACA AAGAAGGGCT GCCTCTTCTA  
GACCTCCCT TCTCCTTGT CTNTGTCC ACCCAGCAGG GAAACAAGCT CAGAAGGATC CTAACAGGAT AGATTTTCCA  
GTAAAT

SEQ ID NO:2155: (Length of Sequence = 317 Nucleotides)

TGSATGAGGA GACCCGTGAC ACACCTGCT ACTGNCAGCT GGAGCCCAGG GCCTGINACA TCCTGCTGGA CCAGCTGGGC  
ACCTACGTTT TCACGGGCGA GTCTTATTC CGCTCAGCAG TCAAGCGGCT CCAGCTGGCC GINTTCGCC CCGCCCTCTG  
CACCTCCCTG GAGTACAGCC TCCGGTCTA CTGCTGGAG GACACGCTG TAGCACTGAA GGAGGTGCTG GAGCTGGAGC  
GGACTCTGGG CGGATACTTG GTGGAGGAGC CGAAACCGCT AATGTTCAAG GACAGTTACC ACAACCTTGC GGGCTCT

SEQ ID NO:2156: (Length of Sequence = 372 Nucleotides)

CTTCAGCTG GCAGCCAGT GGCACCCA TGTCAGCAC TTTCAGTGG GACTCTTCAG TGGCAGCAAG GCCACCTGAG  
GCCCTGINTC CCAGCCACTT TCCCTCCTGG CACTGCCACC AGCTCACCG AGTGGCGGA TCTCGGCTCA CTGCAGCTC  
TGCTCCCGG GTTCAAGCAA TMTCTGCC TCAGCCTCT GAGTAGCTGG GACTATAGCC GCGTGCCGCC ATGCCAGCT  
AATTTTGTGA TTTTAGTAG AGACAGGAT TAACTATGTT GGCCAGGCTG GTCTTGATTT CCTGACCTCG TGATCCGTC  
TCTCAGGCT TCCAAAATG CTGGATTAT AGGCATGAGC CACCACTACC GG

SEQ ID NO:2157: (Length of Sequence = 351 Nucleotides)

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CTGGCTAACA TGGTGAAATC CCGTCTCTAC TAAAAGTACA AAAAATTAGC TGGGCGTGGT GGTGGGCACC TGAGCCCCA  
 GCTACTTGGG AGGCTGAGGC AGGAGAATGG CGTGAGGCAA CAGTGCAGCC TGGGCAACAG TGCACCTCCT CCATCTCTAC  
 CAGCGTCCCC TCCAGTCTGC ACGGGGCAGT CCTCCTGGGC TTGACCTCTC TGTACCCACA GCTGGGGGCC AGGCAGCCCC  
 CCTCTATCCC TCCAGCACC TACTACATCG NCTNCACAT CCTGATTCC TGTGTATTG GAAACTINTG CCAGAGATGG  
 AGGTTCTCTC GGAGTATCTG GGAACGTGTC C

SEQ ID NO:2158: (Length of Sequence = 280 Nucleotides)

CAGCTCCTGA GGACCGCTGC AGTGATGACA CAGGACTATT GCATCAGCAT CGTGCTCACA GGAATCAGA GCTCAGCCAG  
 GAGAGGTCCA AGAATGACAG AACCATGAGC ACTCCTACCA AAATCAGCT CTGCTCAGCC AAATCAACAA TTCAACCCAA  
 CAGGNCAACT CCTAACACAT CCCATCCAGA CAGACATTAG AGGCGCACAG CAGATGAACC TCCTACTTAC ACTGTCCAAG  
 GAAGCTGGAC TATCAATTCC CAGTAAAAGT GGGGAAAGG

SEQ ID NO:2159: (Length of Sequence = 342 Nucleotides)

CTGTGCGT TCTCCTACCA GATGTGTCAT GCCTCCTGTG GGCAGAGCCT GTNCTGACTT GCTCCTGGGT CTCCAGCATC  
 ACCCAGTCTG GAGCTGAGGA CTTGGGTACC TACAGATTTC CTTCACACT GTCAGAAITG AGATGAAGGA AGCCCAGAGA  
 AATCAAGTAC CTCCACCAG GCAGAGCAA GTCTCTGGTG CCCAAATCC AGGGAAGGCA AGGGCTGGGG GTACAAGCAG  
 AGGATCTGAA GAGGTATATG AGAGTNGCCA GCACAGACCT GGCATAAGCT TGGTGCTCAG TGAAGGTTAC CTGATGTTC  
 TGGGCACCAG GGTGATGCA GT

SEQ ID NO:2160: (Length of Sequence = 376 Nucleotides)

ATCTTAAGAC ACATATGGAA ACAATAGGG TAGAACTTAG TAACTACAA GAATATAAAT TGGAGCTAGA TGAAAAGGCA  
 GTGCAGGCAG TAGAAAAATT AGAAGAAATC CATTTACAGG TTAGTTTTTT AAATCAGGTA AGTTTATCTG TAATGTGCTT  
 TCATTTATTT CACCGCAAAT TATATTTTGG ATATGTATAT ATTATGTTTC CTCTGCCCT CTGTAGCAA TTGTCTTTGT  
 AGAGTTCTAG AAAAAAATG GCATCTGTTT TTCTTTTAA ATATTTACAT TTCCATTAT ATTATAACAA AATCAATCTT  
 TCAGAGTAAT GATTCTCACT GTGAGTCAT TTGATGATTA AGATCCAGTT GGCATA

SEQ ID NO:2161: (Length of Sequence = 404 Nucleotides)

CCTTCCTTG GTTCAACTG GACTTCTATC AGGTCTACTT CCTGGCCCTG GCAGCTGATT GGCTTCAGGC CCCCTACCTC  
 TATAAACTCT ACCAGCATTA CTACTTCTG GAAGGTCAA TTGCCATCCT CTATGTCTGT GGCTTGCT CTACAGTCTT  
 CTTGGCCTA GTGGCCTCT CCCTGTGGA TTGGCTGGGT CGCAAGAATT CTTGTGCTCT CTCTCCCTG ACTTACTCAC  
 TATGCTGCTT AACCAAACTC TCTCAAGACT ACTTTGTGCT GCTAGTGGG CGAGCACTG GTGGGCTGTC CACAGCCTGG  
 CTCTTCTCAG CCTTCGAGGN CTGGTATATC CATGAGCAG TGGAACGGC ATGACTTTCC CTGCTGAGTG GATCCAGCT  
 AACC

SEQ ID NO:2162: (Length of Sequence = 339 Nucleotides)

CAC TGCCCTT TTGTAGCTTG GGATCTAATT TGTAACACCT TGCTACCTAT GAAAAGTGGG AATGTAAAAG GGAAAAAGCA  
 ACTTGGCATT TACTAAACTT AGGCTAACCA AAACCTCTG TAGAGATCCT TACTAGACAT GGGTGCAACA GCAAGCATCC  
 CAGAGGACCC ACCACTGGGG TATGTTTTAG GCCAATGGAG CAAATTCAA TTTGGCTAAA AGAAGAAGAA ACTCATTTAG  
 TATGGCAATA ATATTTCGT TCGACACAAA GTGGCAAACC AACACATTTG GCCTAAACAT GGTCTATAT GTTTAAACA  
 TACTTTACAA TTAGACTTC

SEQ ID NO:2163: (Length of Sequence = 285 Nucleotides)

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CCCCGCCACC TCCAGCAGGA GCAGCTCAGT TTGTGGCTCT GGGAGCTCCG CTTTTCGAAA CCCAAAAAGG CTGTGCATTT  
GGAAGCCAAA CGCTCAGCAT GCGGCTGCCG AGTCTGGTTT TGTGGACAAA GCAAACGTGT GAATGGCTTC TCGGTGTCTG  
TATAAGGGA CAAACGGTGT CATTCACCTT TGTACTATA ACACCGCTTC TGCATTGCC ATATCCGTTT TTAAACCTTT  
TTGTCTCCG GGAACCTCTC ATTGATTAT NATGTCTTCT GATGA

SEQ ID NO:2164: (Length of Sequence = 296 Nucleotides)

ATGTTTGTA ATCACTTCTT TTCTCTACAA TATTTCTAAT AAGAAAGCTT ATAACAGCAC TTATTTGACA CCTCGGACC  
CGGGCAGGG TCAGCAAGAC TCCAGCTGG CATCAGACTG TGTCTGGCCT GCTGTGCCA TCCCTGAGGG GTGCAGGACA  
GAGCCCCATA GGGCAGAGAG GCTCCTCTGG GACCAGAGGA GGATGCTGTG CAGCCAGGCC CATCCCCAGC ACTCGAGGCC  
TAGGAGGAGA GGTGGGCTCT GGCAGCGGT GTNAGGTGGC AGTGAGAAGC CAGGCC

SEQ ID NO:2165: (Length of Sequence = 310 Nucleotides)

GTTTTTTGTG TGTTTTTCAA ATAAATTTTT TCTGTGTGTG TTTTTTINCT TTTTTTGGAC AGGNTCTCAT TCCCATGGCC  
CAGGGTGGAG TGCACTGGTG CGATCTCAGC TCACTGCAGC CTTGACTTCC CAGGTCAGA TGATTCINCC ATCTCAGCCT  
CCCGAGTACC TGGGATTACA GGCACACACC ATCATGCCCG GCTAATTTTT TGTATTTTTA GCAGAGAOGG GGTTTTGCCA  
TGTGACTCAG GCTGGTCTCG AACTCCTGGG CTCAGAGAT CCGCTGCCT TGGCTCCCA AAGTGTGGG

SEQ ID NO:2166: (Length of Sequence = 361 Nucleotides)

GATGGAAACT GGAAAAAAA TAATTGTAA GCAACAATTT TAGATTTTTT TATGGAGGAT AGAGACATTT GAATCAGATA  
CCAAGAAATG TATAGTAATC ACTCACATAG AAAGATGTCT AAAATGGATT TTAATGGGA TCGGGGAAAG CAAGTGCTG  
AACACATGC TGTACATACT ACTTATAAAT CAAAGCAAAC CACTAGCAA CTGATGTGAG TACTAACACA GGTGAAGTG  
GGATGTGGC GGAGGGGAGA GGTAGTNAGG GTAGACTTAT TTGTACCAAT TTATTTTTTG ATATTTCTTT TATATACAGA  
TACATAAGTC TGTATATACA TGTATGTCCA ATTATCTCT T

SEQ ID NO:2167: (Length of Sequence = 325 Nucleotides)

TCTTGGGCTG TGCTCTGTTT GAAGGGGGCG CCTGCTCCC CTCAGATCAG TCAGGAGGAA GATGACTAAG GGGAGGGATC  
CTCTGGGIGA TGGCCTCTTC CTCTCAGGG ACCCTGACT GCTCTGGGCC AAAGAATCTC TTGTTCTTC TCCGAGCCCC  
AGGCAGCGGT GATTCAGCCC TGCCCAACT GATTCINATG ACTGCGGATG CTGTGACGGA CCCAAGGGGC AAATAGGGTC  
CCAGGTCCA GGGAGGGGCG CTTGCTGAGC ACTTCGCCC CTCACCTGCT CCAGCCCCCTG CCATGAGCTC TGGGCTGGGT  
CTCCG

SEQ ID NO:2168: (Length of Sequence = 348 Nucleotides)

GGAGAACCGT TCGCGGAGGA AAGGCGAAT AGTGTGGGA TGCCACCAA CTGGGGGAGC CTCTGCAGG ATAAACAGCA  
GCTAGAGGAG CTGGCAAGGC AGGCGGTGA CCGGGCCCTG GCTGAGGAG TATTGCTGAG GACCTCACAG GAGCCACTT  
CCTGGAGGT GGTGAGCTAT GCCCCATCA CGCTCTTCCC CTCACTGGTC CCCAGTGCCC TGCTGGAGCA AGCCTATGCT  
GTGCAGATGG ACTTCAACCT GCTAGTGGAT GCTGTGAGC AGAACNGNTG CCTTCCTGGA GCAAANTCTT TTNCAGCACC  
ATCAACAGG ATGACTTTTA CGCTCGT

SEQ ID NO:2169: (Length of Sequence = 392 Nucleotides)

ATTTTGTGA GGTCCAGTTT GGGTGGCAG AACTAGGATA CTGACCTGAT GAGGCTACTT GTTGCCTTTT GCGTGGGCA  
TTTATTTATT TATTTATTTA TTTATTTTGT TATTTTGTAGT AGAGACAGAG TTTCACCATG TTGGCCAGGC TGGTCTCAA  
CTCTGACCT CAAATGATCC ACCACCTCG GCTCCCAA GTGCTGGGAT TACAAGTGTG AGCCACCATG CCGGCCACC

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TGTTGCATCT TTAACAGCTG TGTTTGAAA AGGGTGAGGA ATTGATTCAT CAATATTCAA TACTAAGCTG CAAAATCAGG  
AATGCAGCCA ATTGGTTTAA TTGATCAAGG CTTATAAACT CTTAAGGGAC TCTAGTGAAC TGATACAAAC TA

SEQ ID NO:2170: (Length of Sequence = 273 Nucleotides)

GTGTGTGTG ATGCTGTTGT TGTTGCTTTC TGTTTGTTTT TCTTGCAATG GTCAGGTCCC ACTCTGAACT CCGGGGGCA  
CCAACCTGAT GCCAGTAGGA TTGCCCTTGT ATAGGGTGTC TGACAACCCC TGTTGAGGGT CTCACCCTGT TGGGTGGCAC  
ATGGAATAGG ACCCATTTAA TGAAGCACTT TNCCTTGG TGGAGGTAGT GTGCTTINCT GGGGAAAAC CCCTGTGTCT  
GGGCTGCTG GATTCCTCAG AACTACCAGG AGG

SEQ ID NO:2171: (Length of Sequence = 357 Nucleotides)

GTGATGTACC CCAGCACTAG GGAATGATGT GAGTAAGACC TAATCCCTGC TCTCAGGGAG CTTATAGCCT ATGGCAGCAG  
CAACACTAGT AAAAATTTAC TACTTTGATA GGTGCACATC TTCTTTGGT CAGCAATTTT CTCAAAACCA CTGTAACATT  
TTACTAAAAT GCTAAGCTTT GATTGTTTTT CAACTACTTC TTGAGAGTTT CTGCATGTAT GATAAGGGCA AGACATTACA  
CTGAGGTATT GATGCTGATG AGCAGCAAGG CTCCTGGCT GGTGAAGGGA TACTGATTAG CACACCAATG TGCTGCTCTT  
GAACACACAC CTCCACAAA TTACAAATTA TCTTCCA

SEQ ID NO:2172: (Length of Sequence = 381 Nucleotides)

GAAGAAGGCC CATGGAGCTA AGGCCTCAGA ACACCAAAGT CTGGACTGTC TGAGGSCACA TGCTAATAAC AGGAGGCTGG  
CAAAGTGGCC AGCTCCCATG CTTTTCATG CATTINTCTT TACCTCTGC TGCTGGGAA CATCTTCCA GGAGCAATCG  
AGTCAACAGC ACCACAGACA CTGCTATTCC GTTGAGAAAA GTTTTATATG GAAACACATA CTGATCATGA ACACAATAAA  
CAGGAGGGA AGCTCGGGCT CAGCCAGGAA ACCTGCCACA AGGAAGATGT TTGGAATAT CCAGGAGTAG TGTCAAACAC  
TAACACCATA TTTACAAGTC TAATTTGGAA CCTGGGCCCT TTTTAAGTGC AGGAGGAAGT T

SEQ ID NO:2173: (Length of Sequence = 351 Nucleotides)

GAAGTTCCGG GAGCGCTGA AGGAGCTGT GGTCCCCAAG CAGTCATGG ATGTTGTGGA CGAGGAGCTG AGCAAGCTGG  
GCCTGCTGGA CAACCACTCC TCGGAGTCA ATGTACCCG CAACTACCTA GACTGGCTCA CGTCCATCCC TTGGGGCAAG  
TACAGCAACG AGAACCTGGA CTTNGCGCG GCACAGGCAG TGCTGGAGGA AGACCACTAC GGCATNGAGG ACGTCAAGAA  
ACGCATCCTG GAGTTCATTG CCGTTAGCCA GCTCCGCGG TCCACCCAGG GCAAGATCCT CTGCTTCTAT GGGCCCCCT  
GGCGTGGTA AGACCAGCAT TGCTCTGGTC C

SEQ ID NO:2174: (Length of Sequence = 308 Nucleotides)

TCATTAAATA GCTTCTATGC CAACTCTGA TTAAGCCGAC TGAGGTCCCT GGGATCTGG TCACTGGACC GAGCTGCTCG  
CTCGGTGGCT CCACTGCCAG GTCCGGGCGC GCTCCCCACA GCGCTCAGTT CTGGCCAGA CAGGGCTGA CATCCGCGC  
CTGCAGTCCC GGGGTGGCCG TCACCGTCC ACGGCCAGNG ACTCTNCTG CTGTCGGG AAGGCGATGT CGAAGATCTC  
CCGTTAGTNT TCCACGAAGG TAACCTCCAG GGCCTCGGT GATGAAGGCT TCCAGGTCT AGAAGTCC

SEQ ID NO:2175: (Length of Sequence = 403 Nucleotides)

CTTGCCCAAG GGCTGAGCT GTGGAGGCA GAGCAGGAGT TGGATCCAGG CCTGTNIGAG GCATCCTGCC ACCTCCATCC  
AGACCTGGAG CAATCCCTGA GAAGGGTGGC TACCACAGA GATGTGAGC CTCTGTCTC AGGAAGCATA GCCGGAGGAT  
GTCCAGGCC ACCAACAGC CATTATCAG TAAGGAGCA GATNAGGC TCTAGTICA GCGCCGGAA GTGGTCCAG  
GGGAGCCAG TNCAGAACTC AGCAGGAGCT CAGTTCCAAC TGAGCCTGAT TCACTCCAG TGTCCACAAG GGACATCCTG



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ACCTGGAGGT CCTCGGCTAC TCACCTGGG GCCINCTTGC ACAGCCCAGG AGCTAGCCCA GGGCTGCCTC TAAATGGTTC  
CCG

SEQ ID NO:2176: (Length of Sequence = 399 Nucleotides)

AGGCAACTAT TGAGGGAAGA GGCAGAAAAA GGAAAAAGGA ATGTACGTAA GGCAATTTIN CTTAAAAGTA CAATAAGCTT  
AATAGTGTIT TAGGAAGACA AGATAAAAAT TACTCAAGGC TAGCTTGGIT CTCACTGAAT AAAAACAAAG GACTAAATAC  
TGAGCTCCIT CTGTGTGGAT CTAATAATCA ATGCCTTGGT CGCTATATG GTAATCTCTG GGGTAGTCAT CCTGGTACTC  
GCCATGATAC TCATCAGGT ATTCTGCCTG ATAATCACTA TCACTGATTT CCGAACCATT TGTTCTGTIT CCTTGGCTTC  
CGTTGTGAAT GACAGGTTCT GTAGGAGCAG CACAGTATTT GGGGATCATA TACTTGCCGN CCAAGGCCAT ACAAACCTCA

SEQ ID NO:2177: (Length of Sequence = 302 Nucleotides)

GGTTTTTATA AAAATCAGAA TTTTCAAT GCATTGGTCA TTTTCAGATG CATGGTCAC ATTTCAATAT TCCATATCAA  
AAAACCTCAT TTGTTAATGT CACACAAATC TCATTGGAAA GGCTTCAAG TATTGTGAAG TTGTCCAGGT CACAAAGATG  
AATGCTAGTT TTCAAAAT CTACTTTTCT CTGAATGCT CAAATCTTAT AATTGGTAAC CCGTCACTT TTTCTTAGT  
TGATAGGCTT ACTGCTTTTA TGTTTGAGA ATACTTGCT GTGAAACATC CAAATCTGGA AG

SEQ ID NO:2178: (Length of Sequence = 343 Nucleotides)

GGTTTCACTC TCCTTGCCCA GGCTGGAGGA GCAATGTCAT GATCTTGCT CACTGCAACC TTCTCCCTTC CAGGCTCAAT  
CAATCTCTCT GCTCAGCCT CCCGAGCAGC TGGGACTACA GGTGCGTGCC ACCATGCGCA NTAGGTTTTT TTTTGTAGA  
GACAGGGTTT TGCCATGTTG CCCAGGTTGG TCTCCAATC CTGAGCTCAA GTNATCTGCC TGANGTGCTG GGATTATAGG  
TGINAGCCAC CACATCCAGC CTCCTTTTAA TGTTTGTGTT ATTATTTATA GTGAAAGATT TAAATTCCTT TCTATTCTCT  
TGTTGGTATAT ATTCTATAGG CTA

SEQ ID NO:2179: (Length of Sequence = 377 Nucleotides)

AGATCATCAG GAATTAGATT CTCATAAGGA ACACACAACC TAGACCCCTC AGAGGTGCAG TTCACAGTAG GGTTCATGCT  
CCTATGAGAA CCTAATGTTG CAGCTGATCT GACAGGAGGC AGAGCTCAGC TGGTAATGCT CACTCACCTG CTGCTCACCT  
CTTTCGTGT AGCTCGGCTC CTAATAGACC TGTATGTGTC CATGGTCTGC GAGTTGGGGA CCCCTGCAGG AAGTCTTGTA  
AATGCATGTC AGGAACTTA CTGTTTACAG CCACATAGTT TGTAGTAGTA AGGAACTAG GACAATCAA ATATTATCA  
NNGGGAAAAC TGGGATAAAT TGTTGGTCAA TTTATATGT TTCATACAGG AAAAAAG

SEQ ID NO:2180: (Length of Sequence = 195 Nucleotides)

GATATTGCT TTTCTCAGAA CCATAATCGA TACAAGATGC AGTGACCAAT TCATTCTTAA AAACACCTGG GCTCCTTAAG  
CGGCTAGAAG ACACAAGTTA CATCCAGCCC ATCAGGGAGC CAGAGGNGA GGGGTCCCA GCCAAGCTCT GGNACGGCCT  
GCCATGGGGC AGNGCCTGAC CGTNCAGCCA GAGGT

SEQ ID NO:2181: (Length of Sequence = 244 Nucleotides)

TTGGGTGGGA ACGGGCCCGG AGCGGGAGGA ACGTGACTCC CCAGAGGGAA GATGGGCATC ATACTGGGCC CAGAGCTGGG  
AAGGAGTTC TGCCAGCACA GGGTGGCCT GGAATCCCT CGCCCTACC CCCAGTGGT GTGGCTGTAG CCCTAAGCCT  
GGAGAGCAGG ACCGGCCCGG GGTGTNTNGN AGGCTGCCAG GTGCCTCCA GAGCTCCAA GGGCCCCAC CTGCAAGTNC  
CAG

SEQ ID NO:2182: (Length of Sequence = 287 Nucleotides)

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CTCCTTGAGT CTGTTGACAC GTCACATGGT CAAAGTCTCC TCATTTTCAGC CAGTCTCAAC ACAAACACC CAACAGGGAT  
GCACTCAACT TGTGTTGCC ATGTGGAAGT AGGTGGCAGG GCGAGAGGGA AAGTAGTAGA AGGGGGCTAT GGTGTGTCTG  
CATTCAGTCC CCTCACATAA AGCCACATGG ATCTAGGGGG GTATCCAAGA GCTCTGGTGG GGTCCGTGTT GCACCTAAGA  
CATTATAGGT CAGAGCAAGT TGCTCAGAGG GTTCCAGGCA GGGGGCT

SEQ ID NO:2183: (Length of Sequence = 389 Nucleotides)

GATCCAGAGA GGGCTCCAGG TGGAGTCCCT TTTTCTGCAT AAGGGGCTGT GACCGAAGCA CAGAGGGGAA AAAAAAAGT  
GGTGGGAGCC TCCTCTGGTT TCACCTGAAG AGGGAGGTGG AAGGGCCTGA AAATTAGATT TTNTTTATAA ATAATAGATA  
TTATAGGTAT ATTTCATAT TTTTACATAA TGATGCCAAC CACAAACAAT GGACCATAAA GCACTGACCT CAGAATGATC  
AATTGCAAAA TGTTTAAACC CTGGGAAGCT TTTGCTTAGG AGGGCGGATA TTCTGTGTG ATGTTATTCT ATAGCCATAA  
ACTTCCCTGA ATTINCTGCT AATGTATCCA AGTCCAGGGA AGTCACTTAA AACTCTTCAA ATGCAGCTT

SEQ ID NO:2184: (Length of Sequence = 383 Nucleotides)

GCAAGAGAAG CGGTTTGGGT CTCTGAAGGA AAGGCCAAAA CCCAGAACAA AGAAGAATCC TATGACTTCT CCAAACTCTA  
TGAATATAAG TCAAACCCCT CTGCCGTTGC TGGTAATGAA ACTCCTGGGG CATCTACCAA AGGTATCCT CCTCTGTG  
CAGCAAAACC TACCTTTGGG CGGTCTATAC TGAAGCCCTC CACTCCCATC CCTCTCAAG AGGGTGAGGA GGTGGGAGAG  
AGCAGTGAGG AGCAAGATAA TGCTCCCAA TCAATCCTGG GGCAAAGTCA AAATATTGA GGAAGATGGN TCCACAAGGC  
CAGGTTACAG AGGAATGCAA GGAGCTTCCA GGAAGCACA GAATCCAAG TTTTCGGAAA TTT

SEQ ID NO:2185: (Length of Sequence = 359 Nucleotides)

CTTTAATCA CATCACAGCA GTCAAGGAAG TGGGGAAGG GGAAAAAAT CAAGTGGCAG ATATTTACAT CTAAAATTCA  
CATTACTTGT TGGATTTTGA ACATGCTACC ACAATATATA CAGTAAATA CCTCTGGGA CAATGGTACA AATTTTGT  
CCTTAACTT TGCTTTCTG GTACAGGTAA GATCATTTT AAATCACTT TTTNCTTTAA ACATGAATAC ACAAAGAAA  
TGGTTAGAAG TTTCTTGT TTAATAAGC ACAGAATGCG GGAGGTTAAA AACACATTA TAGTGCTGAA TACCAATTGG  
NCATCACT CTATACATT TTTGCTCAA TTCTGTAC

SEQ ID NO:2186: (Length of Sequence = 337 Nucleotides)

ATAGTTATAC TCAGTGAAAT TAACAAGACC CAAAGGTGGT ATTGTCTAGG AATAAAGGG ATAATTTTGT TTGTTACAA  
AAGTAACTTG TCTAGACCA CACATCAGAA AAACAAAA ATAGCACACT CTAGTTCTAA ACAGCTATGT CTAAAATAGA  
TTATATAGTA AAACCGGTAT TATACAGCAT ATTGTGGATT TGATAACAG ATAAATATTT GCNCTGAGTA GGCTGTTTAT  
AATATAACAT TTNCTTATCT ATACAGAATG AAAGCCAAAA AGTTAACTGT ATAGAGATGT GCAGAACAAC ATTAAATATT  
ATGGCTCAA AGCAGGG

SEQ ID NO:2187: (Length of Sequence = 329 Nucleotides)

GCATTINTCA GCACAGATAG AGCCCTGTCC CTCACCTAG TGCCCACTCC ATGACTGTTA ATAATAACAA TAATAATAAA  
ACTACTGGCC AAGCACGGTG GCTCATGCCT GTAATCCCAT CACTTTGGGA GGTGAGGTG GGCAGATCAC CTGGCCCAAC  
GCCACGCT CTAGCTCGG GCTCCCTGAG GTCCCACTG CCTTNNCCGG TCCACGGCT CCCACGNTGC CACCTGTCC  
TGAATCGCA CCTGGTCTG TGGCAGACT GCTGATGAG TTCACCTCAC CCATGCCCT GGAGGCGGT GCAGAGGGAG  
AACCAGGC

SEQ ID NO:2188: (Length of Sequence = 335 Nucleotides)

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GGCCCCAGCT CCTCTTCTG CCTCTTNAT GGCTTGGCT GGAGTGGCT CTCTGGACCT GACCGGGGT CAGACTGTGG  
 GTCCCTGGT CTCTGCCCC CTCINACGG GCTTCTCCC TCCACGCTTA GGGTCTGTCC CGGGTACTCA GTGAGCCCCAG  
 TGGGATCTTA CCCACTTCCC TGCAAGGTGC ACCTGCCCCA GGCTCAGGCT GCGCAGGGC TCCTCTGGA CAGTAAGAGC  
 AGGGCTGGGC GCCTCTTTC TGGCCCCGAA GCGCAGGGG CCCCTCTCC AGAGCCTNGG CGCAAGGAAC ACAAGGCTGC  
 CGCTGCTCTT CCAGG

SEQ ID NO:2189: (Length of Sequence = 366 Nucleotides)

AACTGGTGA TCAGATCGAN TTCTACTTTT CTNATGAAA CCTGGAGAAG GACGCTTTT TGCTAAAACA CGTGAGGAGG  
 AACAGCTGG GATATGTGAG CNITAACTA CTCACATCCT TCAAAAAGGT GAAACATCTT ACACGGGACT GGAGAACCAC  
 AGCACAATCT TTGAAGTATT CAGTGGTCTT TGAGTTGAAT GAGGACCACC GGAAGGTGAG GGAGGACCAC CCCCCTCCCA  
 CTGTTCCCA ACGAGAACCT CCCAGCAAG ATGCTCTGG TCTATGATCT CTACTGTCTT CCTAAGCTGT GGGCTCTGGC  
 CACCCCCAG AAGGAATGGA AGGGTCAAG AGAAGGTGAT GGAACA

SEQ ID NO:2190: (Length of Sequence = 333 Nucleotides)

CTGCGATCCA GCCTAGGCAA CAGAGTTGAG ACCCTATCTC AAAACAACA AACAGCCAG GCACGGTGGC TCATGCCTGT  
 AATCCAGCA CTTTGGGAGG TCGAGGTGGG GGGATCAGCT GAGGTCCGA GTTCGAGACC AGACTGACCA ACATGGAGAA  
 AGCCATCTC TACTAAAAAT ACAATATTAG GGGCGTGGT GGTGCATGCC TGTAATCCCA GCTATTGGG AGGCTGAGGC  
 AGGAGAATCG CTTGAACCTG GGAGGGGAG GTTGCACTGA GCCATGATTG AGCCATTGCA CTACAGCCTG GGCAAGAGCA  
 AAATCCGTC TTC

SEQ ID NO:2191: (Length of Sequence = 284 Nucleotides)

AAGTTTATAA AAGTTTGATT ACTGAAAAG TTCATCTAA TTCAGAAATT TCAGGCCAAA TGAAACAGCC CTTCAAGCA  
 AACATGCCIT CAATCTCTCG AGGCAGGACA ATGATTATA TTCCAGNGT TCGAAATAGC TCCTCAAGTA CAAGTCTGT  
 TTCTAAAAA GGCCACCCC TTAAGACTCC AGCCTCCAA AGCCCTAGTG AAGGTCAAAC AGCCACCANT TCTCTAGAG  
 GAGCCAAGCC ATCTGTGAA TCAGATTAA GCCCTGTGC CAGG

SEQ ID NO:2192: (Length of Sequence = 260 Nucleotides)

ATGACGACG CTACCTCGAG GTCAITGGCT TCACCATGAC GINGTGGCC GCGCTGCAGG TGGGCGGACA CGGCGAGCG  
 CTGACGAGT GTGCGAGGT GGTGCTCACC ACATCCAAG CCATCCCGT GCAGGTGGAT GCGAGCCCT GCAAGCTTTC  
 AGCCTCAGC ATCCGCATCG CCTGCGCAA CCAGNCACC ATGGTGCAGA AGGCCAAGNG GCGGAGCGCC NTCCCCCTTG  
 CACAGCGACC AGCAGCCGT

SEQ ID NO:2193: (Length of Sequence = 247 Nucleotides)

GGTCTCAGCA CTGCTGGGT GACCGGGG AGCAGGCAA GGAGGGCTCC CAAGTCCGT CTGCAGCACT GGGCAGGGA  
 ACAGACCCAG GNTCTGGGA ATCTCTTCT GCTAGCTTT GCTGCCTGC CAGAGCAGG CCGCGGTTT GGGTCTGTN  
 ACCNTCCGG GCGGGGGAA GGGCAAGNA GCGGATCTC TGAAGTCCG CCCAACTTC CTNCTGATCC CCCAAGGTCA  
 GAGAGG

SEQ ID NO:2194: (Length of Sequence = 399 Nucleotides)

CCTCCATCTC CCGGTTCAA GCGATTCTG TACCTAGC TCACATG CAGGATTAT AGGTGCGCC CTCTCAACCT  
 AGCTAATTT TGCAITGTA GCAGAGATGA GGTTCGCCA GGTGGCCAG GCTGTCTTG AACTCTGAC CTCAAGTAT  
 CCACCCACT TTGTGGCCT CCCAAGTGC TGAATTACA GGCAACATGT AGCCTTTGAG TCTAGCTTCT TCCACTAGCC

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TAATTCATTT GAGATTCCAC TCGATTCTAC TTGAGATTCA TCCACATTGT TGAATGCACA TTCTTTTTTA TTGTTCCTGT  
AGCATCTGT TGTGCAGCTG TGCCCCAGTT TGTITANCTA TTCACTCTCA GTTGTITCCA GTTTTAATGA CAACTTCAG

SEQ ID NO:2195: (Length of Sequence = 172 Nucleotides)

TCAAAGTCAG CTTCTTGACC TGCAGGGCTT CAATTTGTGG CTGACAGTTT TAACTCAGAA AATCCCTGAC TTGATTGGCT  
ACATAAATNA TATGINATAT AGCCATTAAG ATCATGGTTT TGGAAAGTAT TTAAATGATA CAGGAATGTG CTCTGAAATA  
ATAAGTGGGA CT

SEQ ID NO:2196: (Length of Sequence = 398 Nucleotides)

GCAAAAAAA AAATTATTAT CTCCACTTTA CCACTGCTGA CACTTCACCA ATGTAGGGCT CTCAGTGACT AGCCAGGGT  
CATGCACAGC CTGTTTCAGC AGCTACCTTG GACTTGAACC CAGCTCGGTC TGTCTGACTC AATGCCTATA GTCTTAACCT  
TTCCAGCAGC TGCTTCTTTG TCAAACAGGT CCTCCCGCAG GTTTTCACAG CCCAGCCCT TACTCAACAA GTATTTATTG  
ACAGGCCTCA GGAACACTAG GCAAGTAGGA TAGCAATGAA CAAGATGCTG ACCTTGACCT TGACCCTGCA TOCATAGTAT  
GAGCATTTTA ACTGGGGGAG GGTTTGCAA GTTCTCTTAA ACAGTCTACT ACATGCTCTG TAAGCATTTT CTTATGGG

SEQ ID NO:2197: (Length of Sequence = 313 Nucleotides)

GTCCCTGTG CATTGAGTGC ATCCCCGCTG GTGACTAAGC TGCAGCAAG CGGCTACCCC COGATCTGCA AAAGGGCTC  
TCCCTTTGTG TTCTATACAT TGTGAATCTT CCGTCTGAA GAACGCCAG CCGTCCCAGA CAAAGCCCCG CCTTNCCTCA  
AGCAGAGGGG CTGTCTGTGT CTCCAGAAAG GGGACATCGG GGGGGAGGGG GGCTCAGAAA GGAGAAGGGC TGTGATCTCC  
GGTCCCTCC CCCATCATCC TTCCTTAGAC TGATGCTTTG ACTGAATCAT CACTAGCTAT GGGCATTAAA AGG

SEQ ID NO:2198: (Length of Sequence = 360 Nucleotides)

GGTCTACTA TGTGCCCCAG GCTGGTCTCA AACTCCTGTT CTCAAGCGAT CCTCTGCCT CGNCTACCA AGGTGCTGAG  
GTACAGGCG TGAGCACTGC ACCTGGCTAG GAAACTNAGT TTFTTCAGTG GTAGAGGCTC CTAGCCAGTG GCCAAGGGAA  
AGAGAGAGTT CTGGGTTCAG GGGCTGGCAG GAAGTCAGCA AGACACCAGG GACTCGGCTC CACTGGCTGG ATCTCAGGA  
AGAGCAACTG CCACAGTGGG GACCTGGAAC ACAAGGGAA ACTGAGGCAG CAGCTGCACC ACAGTTTACA AGTAGAAAGA  
CCATGCTTGA GGACAACAGA AGTTTACTA AGGATGCAG

SEQ ID NO:2199: (Length of Sequence = 374 Nucleotides)

TTTGGGTAG TACCCTTGCC CTCTTCATGG CCACTTCAA GTGAAGCCAG CAAAGTGATA ATACTTTATC ATTTAGTATT  
ATCATAAAGT ATTAATACTT TGTCAAAAG TCCTCCTTGA GCCAGGGAC CATGGAAGTC AGCTAGAAGA GCCTGAGCA  
AGGAGCAAGG ACTTGGGCTT CTCCAGCTT TGCTCCTGSC TTGTTTGACC TTGACTCAIT CCCATATGT CTTTGAGGAG  
GCTCAGAAA TACTAAAGCT GGGAGGAAAC TTGGAGATCT ATAGGTCAA CCTCCCCATT GGGCTGATGA GAAAATACAC  
GCAGGCCTAG CATGGTGCCT GCCACCATGG TGGGATCCAG TATGGTTTTA TAAA

SEQ ID NO:2200: (Length of Sequence = 416 Nucleotides)

CTACTAAAA TACAAAAAT AGCCAGGCGT GGTGGTGGGC ACCTGAAATC CCTACTCAGG AGGCTGAGGC AGAGAATCGC  
TTGAACCTGG GAGGCAGAGG TTGCAGTGAG CCGAGATCGT GCCACGCRG TTCAGCCGG GTGACAGAGC GAGACTCCAT  
CTCAAACTA TACAAGCTAA CAAACAACAA CAACAAAAA TACCTCTTGA CTTCTAAAGA CGCAAAAGTG GCGAAAGTG  
CAATACAGTA TTGTGTTTAT TTACATCTAT TTTAAATGCA TGTGTATCTG TAAATNCAA GTGATTCGTG ACTCATGTG

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SEQ ID NO:2207: (Length of Sequence = 348 Nucleotides)

GTGTTTGTTC CTCTTTCCAC CATAATTGTA AGCTTCCTAA GGCCTCCCCA GCCCTGTGGA ATTGTGGATC AATTAAACCT  
 CTGTCCCTTTA TAAATAACCC AGTCTGAGGC AGTTCTTTAT AGCAGCGTGA GAATGGACTA ATACACCTCC CTTCTTGAGT  
 CTGGAAGAAT ATGTGAAGGG AGATTGCTAA GGACTTATTT ACAGAATGGT TCTTAAAGTG CTTGGGCAAG AACTATGTAT  
 TTNTGGAGGC TGGTAGTGTT TCAGTGAATC TGAAAACCTT TGTGACATGT GAGAAAGGTA TGCTGTCTCT GAAAGCTAAG  
 TGTATTATGA AGGATCTATA AAGGGCCA

SEQ ID NO:2208: (Length of Sequence = 154 Nucleotides)

GAATCCTGCT GTGCACATTG CTTGAGATGG CTAATTATAT CTTTGGACTG TTTGTACAAC CATTGACAAA TATACTTACT  
 TTCAATTTCTG CTAATGCAAC TGAAAAGAGC ATTCTGTAAA TTGAAGAAAA ACAAATAAAC AGNAATTAAC AAC

SEQ ID NO:2209: (Length of Sequence = 352 Nucleotides)

GAGGTTTCAGA ATCTTCCATC CAGCATCTTC CCTGGTCACA TGGTCCCAAC CTTTGTCTCC ACCCCCTTCT CTGTTCCCCC  
 CGCAGTCCAT GCTCCAGCCA TCCTGACTCT GTCCCTGGAT TTCTGGCTTA CTGACACCTG AGCCTGTGCA CAGGNCCTCC  
 CTTCTGTATA GAGCAGCTT CCCATCTTGT GGACTTGTCT CCCATCTTGT GGACTCGGAG GGTTCGAGC AGCCGTTGAG  
 GTGANGCTCC TATGACACCT CCNCCGTGAA GCCTNCTCA CTTTTCATT ACCAGTGAGG CTTGCCACAG CTTGATTTGT  
 ACTCTGATCC TGGCAGCAT GGAAGCCATC TT

SEQ ID NO:2210: (Length of Sequence = 338 Nucleotides)

GTCTTTCCAT CAAGAGTCAA TGTATATGCA AATATAGACT TAAGAACATA AGCATCCTGG TTTAATGTTG TTGTGAGCCC  
 TGTGAAATA AAATTAACCT CAGTGAATGT TTACAAATCA ATACATAGTA ATCTATATA TGAAAGCTAA GATGTATAAG  
 ATGTTTATAA ATTINCTATT AGAAAATACT GCTTCTTAA AGGTGATTTT AAAAAGCTAG CTGATATCTG ATGGCTCAAG  
 CATCCAGAAA ATGTATGCAA TGATAAGNCA TTGACTAGGA TGAACAGAAA AGGGATACAG GAAAAGTCCG AACACATGAA  
 ATTCTAAATT AACCAAGA

SEQ ID NO:2211: (Length of Sequence = 353 Nucleotides)

GTTCCTGGAG TACCTCTTC CCCCACCCC AGACCTGCTT TCAGAGCAA ACTCAAGTCC CTCTTCTCC GTGAAGCTTC  
 TCCCTCAGCT GAGCAGTGAT CACTTACTCA CTCCTAACCC CAATCCGCTG ACTGGGTGGG GACAGCACGT CCAGCCTTCC  
 CACCTCTCCT GCAGGCTTCT AGACGGAGTT TCAAAAAGTG ATGAGCCTCG ATCCAGGGCT TGAAAGAAGC CAGGGTGTA  
 TCTGTTCAT GCATGCNTCC CCAGAGNCTC GCCCAGTGCC TGGNACATAG TAGGCACTCA ATAAATGCTG AATGGGTGAA  
 TAGTTGAATG ATAGGTGCTC AATAAATGAA TGA

SEQ ID NO:2212: (Length of Sequence = 293 Nucleotides)

GAGAAAGGAG GCAATCTCAG TCTCGTCTC CAAAAGGGA TACTACTAGG GAAAGCAGAA GATCTGAATC ACTGTCCCCA  
 AGAAGAGAAA CTTCTAGAGA GAACAAAAGA TCTCAGCCAA GAGTGAAAGA TTCTTCCCCA GGAGAAAAAT CCAGGTCCCCA  
 GAGCAGAGAA CGAGAAAGTG ATAGAGATGG GCAGAGGAGA GAGAGAGAAA GGAGANCCAG AAAGTGGTCT AGGTCCAGAT  
 CTCATTCTAG GTCCCCCTCA AGATGTAGAC CAAAAGTAA GAGTTCATCA TTT

SEQ ID NO:2213: (Length of Sequence = 423 Nucleotides)

NATTAACACC ACAGTGATAA ACAACTTTAA GCTTATGTTT CTTTATAGAT CACTGGCTCA CACATAATTC AAAACCCACA  
 CAGAAGCTAA GAGTCTTTAC ATTAATAATA TTCTTCTTAA AAATCCTTAC TGTATGCATC TGTCTCAAG CAGTAAATTT  
 TGATTATGCA CCATTTTATA ATTAATATGT CACATTTACA TAGCAAAATA ATGAAGGCAC AGCTAATACA AGCAAACTTA

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AACCCCTTCT ACTTCTGAGC TGGGGGTAGG GGCACACACT TGGGATTGGT TCTTCAAGTA TATATTTTIN CCAAACATTA  
GCTTCAGTGA AGAGTTCTGG ATGATTTTCA CAGCTACACC CCTAAAAGCT ACATGGACAG AAAGACGTCA CAAGGCGCAA  
GGTACATAAC GGTGGGTACA TAT

SEQ ID NO:2214: (Length of Sequence = 259 Nucleotides)

GTCATGGAGA TCCACAGCAA GTACTNGCGC TGCTGCAGG ANCAACCTCC ACAGCGGGGC GTTCTCTGAT CGAGGCTCAG  
ACTTTTCGAGA ACGAAGAAGC CGAGACGGTC ACGCCATGG CCTCGCTNTC CGTGGGCGTN AAGCCCGCCG AAAAGAGACC  
AGATGAGGAG CCCATGGAAG AGGAGCGGCC CTTNTAGCAC TNCCTCGAAG NTGCTGTCT CTGTCTCTGTC TGCTCTCTGTC  
TTTAAGCTCA GCCAAGAAA

SEQ ID NO:2215: (Length of Sequence = 378 Nucleotides)

CACACATCCT CACCCACAG AAAGTGTCTG ACACACTGAA GAAACTGAAT AAAACAGATG AAGAAATAAG CAGTTAAAAA  
AATAAGTGGC CCTCCAAAA CAGNCCCCA TCCACAGCG CTCCGCGAGT TOCCACCACC GCCCGCTCA GTTCCCTTGC  
GTCTGTGTC TCCCGAGCC TGACGCGCT GGTGGGACT GTTCCGCTG CATTCTCTGT TTCAGTGATG CCTCTCTCTT  
GTTTGAANCA AAAGAAAATA ATGCATTGTG TTTTITTAAG AAGAGGTATC TTAATACATN GTATCTTAAA AAGAGGAGCT  
CATGTGGCAA TTGGTGACA GCAGGAGGAA ATTTCTTGGG ACTTNTTATG GNTGAATT

SEQ ID NO:2216: (Length of Sequence = 428 Nucleotides)

GAACCCACAC TGGGGAGAAA CCAATGAAT GTAAGGAATG TGGGAAAGCC TCAATTATT CCAACTCATT TCAGATACAT  
GGAAGAACTC AACTGGAGA GAAACCTAT GTATGTAAGG AATGTGGGAA AGCCTTCACT CAGTACTCGG GCCTTAGTAT  
GCATGTACGA TCTCAGAGT GAGACAAGCC CTATGAATGT AAGGAATGTG GGAAATCCTT CCTTACATCC TCACGCTTA  
TTCAACATAT AAGAACTCAC ACTGGAGAGA AGCCTTTGT ATGTGTGAA TGTGGGAAAG CCTTTGCAGT TTCTTCAAT  
CTTAGTGGG ATTINAGNA CTCACACTGN AGGAGGAAG CCTCTGAAGT NTNAGATATG TGGGNAAGT ATTTTGGGN  
ATCCCCCAT GTCTTAAATA ATCCCCAT

SEQ ID NO:2217: (Length of Sequence = 408 Nucleotides)

GTATCAGAG TTATCGTGA ACACCTGAA TGCCGCTCG GGGGCTTGT CTGTACCAT TGATGGCCCC TCCAAGGTGC  
AGCTGGAAGT TGGGAGTNT CTTGAGGCC ATGTGTCTAC TTACTTCCC ATGGCCCTG GCAACTACCT CATTGCCATC  
AAGTACGGTG GCCCCAGCA CATGTGGG AGCCCTTCA AGGCCAAGGT CACTGGTCCG AGGCTTTTCC GGAGNCACA  
GCTTINAGN NACATCCAG GTTCTTTGTG GGAGACTNT TACCAAGTCC TTCTTAAAG CCGGGGCTT TCAGGTACA  
AGNTTCCATT CCCCAAAGT TTTCTCTCA AATNCCAGC AAAAGGTGGG TTGACTNGG GGGCCCTGG GNTTTTCCA  
GGGCTTTC

SEQ ID NO:2218: (Length of Sequence = 316 Nucleotides)

TTTACAGAAT ATAGCTTAT TTATAGAATC TTACAATAA AACATTACA GTCCACATAA GTTAATTTC TTTCTAATT  
TCTCTCATA CACCTGAGTT ATTTAAAAA ATACTGTGAT GGAAGTGCAG AACTGTAAAG GGAATAAGA ACAATAAAT  
CCTAACCTCT CTGCAAAA TCAGACAACT TTGTTTAA GTAGATGCC AGCATATGC CATCTCTTG GAAGAGGACT  
TACTATACTC AGCTCTACG NTACCCAAAC AGAGAAGCCT TCTTTTAA ACCCAAGGT AAGGGCCAG TGAAGG

SEQ ID NO:2219: (Length of Sequence = 312 Nucleotides)

GGCTTCTGT CCCCAACTT TCTCAGGTG GCGCTGGAC ACAGCAGCCA CCACAGTCCA GGCCTGCAG GCAGGCTGTG  
ACCTGCCCC GGCAGCCACC CCTCCTGAG AAGAAGCGG CCTCGAGGG GGATCGTTCT TTGGGCTCAG TCTCTCCCTC

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CTCCAGTGGC TTCTCCAGCC CGCACAGCGG GGAGCACCAT CAGTATCCCC TTCCCAAATN TCCTTCCCGA CTTTTCOAAG  
GCTTCAGAAG CGGCCTCACC TCTNGCCAGA TAGTCCAGGT GATAAACTTT GTGATCGTGA AATTTTGITC AAGACACTT

SEQ ID NO:2220: (Length of Sequence = 343 Nucleotides)

CTGGCTAACA TGGTGAAATC CCGTCTCTAC TAAAAGTACA AAAAATTAGC TGGGCGTGGT GGTGGGCACC TGTAGCCCCA  
GCTACTTGGG AGGCTGAGGC AGGAGAATGG CGTGAGGCAA CAGTGCAGCC TGGGCAACAG TGCACCTCCT CCATCTCTAC  
CAGCGTCCCC TCCAGTCTGC ACGGGGCAGT CCTCTGCGC TTGACCTCTC TGTACCCACA GCTGGGGGCC AGGCAGCCCC  
CCTCTATCCC TCCCAGCACC TACTACATCG NCTNCACAT CCTGATTCC TGTGTATTG GGAAACTNIT NCCAGAGATG  
GAGGTTCCTT CGGAGTATCT CGG

SEQ ID NO:2221: (Length of Sequence = 373 Nucleotides)

CTCTGTCTCC CAGCCCGGAG TGCAGTAGCG CAATCTTAGC TCACTGCAGT TTGACCTCC CAGGCTCAAA TAATCCTCCC  
GCCTCAGCCT CCTAAGTAGC CGAGACCACA GCTGTGCGCC ACGACATCTA GCCAATTATT TGTTTTTTGT AGAGATGAGG  
TCTCACTGTG TTGCTCAGGC TGGGTAGGTG TCTAACTCCT AGGCTCAAGT GATCCTCCCA CCCCAGNCTC CCAAAGTGCT  
GGGACTACAG GGTGAGTCA CCGCGCTGG CTTTGTITAA GGCATTCTTT TTCCGCAGCA TCTGTTACCA GCAGCCTGAA  
GNCATTTCTA TAAACAATTA TCANGGAAGA CACATGGGNC AGAGACCCTA AAT

SEQ ID NO:2222: (Length of Sequence = 197 Nucleotides)

GTCCTCTGTA ATTCCCCAA ACCGGTCTTT GAGGATGTGA AACCAACTTA TTGGGCTCAA TCCATTGG TCACAGGATA  
CTGTACGTAT CTNCTTTCC AGAGATTGA TATCACCAG ACACCGCCAG CATACTAAA CGTGTACCA GGTGTGCCCC  
AGTACACCAG CATATATACA CCTTGGCCA GCCTTTC

SEQ ID NO:2223: (Length of Sequence = 280 Nucleotides)

TTTTTTTTT GCATTTTITAG TAGAGACGGG GTTCACTGT GTTAGCCAGG ATGGTCTCAA TCTCCTGACC TGTGATCCA  
CCTGCCTCAG CTTCCCAAAG TGCTGGGATT ACAGGCATGA GCCACTGCGC CCGGCCAACT TTTTGCATGT TTTCTTTAAA  
ATTTCTCTAC TTTTAATTGT ACTTCTAATA CAGACACTTC TGAAATCAGT TTTCACATTG CTGCAGCCTT ACCAATTGT  
AGANACTGTT TATGTGATGT TTTGATTCTT CATTTATATA

SEQ ID NO:2224: (Length of Sequence = 388 Nucleotides)

GATTGCAGGC ATGAACCACT GCGCCAGTC GAGTGGTAAT ATTTTGAAAG GAAACCTTTT TCTGAGCAGG TCTCAAAAGA  
GAGGTTAAAA TACTGAGTAG ACCATGCTGT AACAGATGT GCTGTATTTC GGGCTTTGAT ATTCCATTTA TAAAGCACAG  
GCAGAGCTCA GAGTAGATTT AATGTAATC TGAAGGGCAC TAGGATTTIN AGAATGTTAA ATAAGCATTG GCTTCAACTT  
AAATTCAAAT CTGCATTGGC TTGTAATAAG AGACTAGCTT GTTACTGAAG CTTTNAAGCC AGTTGTTTTT TCCTATCTAG  
CTAGGAAAGT CCTAGATGGT ATCTACTTCC AATAAAAGGC TGTCTGCGCC AGGCGCGGTG GCTCACGC

SEQ ID NO:2225: (Length of Sequence = 420 Nucleotides)

GGTCGAGGAG CTTGGGCGG GCGGGCGGG GACTACTCCG GAGTCAGGAG GCAGCAGNGG CGGAGGACGA GGATCTCTGG  
CAGTCAGCGC CGCTCGGACG CCGCGGCAC CATGGGCTGC TGACCCGAC GCTGCTCGCT CATCTGCTTC TGCGCGCTGC  
AGTTGCTCTC AGCATTAGAG AGGCAGATCT TTGACTTCTT TGGTTTCTAG TGGGCGCTTA TTCTTGAAA TTTCTACAC  
ATAATAGTTG TCATATTGGG TTGTTTGGG ACCATTCAAT ACAGACCTCG ATACATAATG GTGACACCG ATCTAATGAC  
ATTCAATATC TCTGTACATC GGTGATGGT GAGAGAACAT GGGGCTGGT TGTTTCAAGA AGAGTGCTGC CTTCCCTCAA  
GCCCCATGGC ANNGATGGAC

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SEQ ID NO:2226: (Length of Sequence = 264 Nucleotides)

GTACCTGCTC CCTGCCGGCA CCTTINTTGG TGGATATTTA GCTGCCCTCT ACAGTGGTTA TAACATTGAA CAGATCATGT  
 ACCTAGGCTC GGGTTTGTNC TGTGTGGTG CCTTGGCTGG CCTCTCCACC CAGGGAACAG CACGTCTTGG CAATGCACTG  
 GGCATGATTG GGGTGTCTGG AGGACTGGCA GCCACCTCG GAGTCTTAA ACCGGGCCCA GAATTACTAG CTCAGATGTC  
 TGGAGCGATG GCTTTGGGTG GTAC

SEQ ID NO:2227: (Length of Sequence = 402 Nucleotides)

AGAGGATTGG GGCACGGGG CAGGGGCGCT GGCACATTCC TCAGATTCTG GCATGTCATC CTGGAAGTAC TCAGCCTGGC  
 GGTACTGCCA CAGACGCAGG TTCCCGTCCC ACGAAGTCTG GACAATCTTC TCTCAAAGG GGTGCCAACT GACGTACGC  
 ACACAGGCCT TGTGGTTGGT CAGCTTCTTC ACAATGTGGC CACTTAGAAG GTCGTACACA ACCACTTTGC CAGTGGAGCA  
 GCCACTGTAG ATGAAGTCT GGCAGTGT ATGAATGGGG GAGAACGGC AGCGGATGAG GGTGTGCAGC ACTCCGTGGC  
 CCGGTAGGT CATCAAGGAG CTGTCCCTG GGAGCTTCAG TTTCGGCCAG GCTTTTTCG GGCACCTTCT GCCACCGATA  
 GT

SEQ ID NO:2228: (Length of Sequence = 394 Nucleotides)

TTTAAAGTGG AAACAATGTT TTTAAGAGGT GATATAAAGA AATGCCCCCA CTGTAATCCC TACCATATGT TGATTCTATG  
 TGTGGGAGG GAGGGGAGAA TGATTCCTTT TTCTAGAATC AGAGAATTTC GAAAGTATCA AGAAAGATAA TAACAGAAG  
 CATGAAATAG AGTGTGCTT TGAAGATGAA TTGGATGAAA TTTTATATG AAGAGGAGTT TTCAAAGTT GCAGACCCAG  
 GATTCCTGGC CAGAAGCATG AAAACGTTTC TTCTTACTG TTCTAGGAC CTAGGCAGCA TTCTTCCAT GTCTGCAACA  
 ACATAAGAAA CAACAGCCCA AACAGCAGCA GCAACATTCA TCTGCTTTGG ATCCCATGGA CAGTCATGTT GTCT

SEQ ID NO:2229: (Length of Sequence = 342 Nucleotides)

TTTTTTTTAG GATGATTGAG TGTTCTTTA AAAATAAAAA CCCCACAAA AAGCCAGAAC ACCCTACCCA ACCCAGCCCA  
 GTGTAACAGG TTAGCCATTA ACACAGAATA AAGAAGGTCC CAGCCACACA CGTCATTACT CGGCAGAGGG TGTCAGCCT  
 GGTGGGCGCA CGTCACAGTG GATGGCCCTG CGTGGCTGGG ACACAGACAG GGAGCAGGCA TGGCACCTGC GCCACGCAGA  
 GCAGCAAGGC TGAGCATGAC CACTGGAAAT AAATAAACAT GGTGCCGACA GCATCTTTGA ATTAGTAAGA CGTTAGCACA  
 AAACAAAAA GCACAACGAC TG

SEQ ID NO:2230: (Length of Sequence = 357 Nucleotides)

GTGGAATGCA GCCATCACAC AGTAGTTTCT GAGATTGCTT CGTCTAGGT TTTATGGGAA GATATTTCTT TTCTACCAT  
 AGGCTTCAAG GCGCTCTAAT ATCCGCTTGG AAATACTACA AAAACAGTGT TTCAAACATG CTCTATCAA AGGAAGGATC  
 CACACTGTGA GTGAATTCA CACATCACAA AGAATCTCT GAGAATCTT CTGTCTGGT TTATAGGAAG AAATCCCGTT  
 TCCAACGAAG GCCTCAAAGC GTCCATATA TCCACTTGCA GATTCTACAG AAACAATGTT TCCAACATG TCTATCAAGA  
 GGAATGTGC ACTGGTGAG TTGAATGCAC ACATCAC

SEQ ID NO:2231: (Length of Sequence = 304 Nucleotides)

AAGAGACGAG GTCTACITTT NINGGCCAGG TTGGTCTCAA ACCCTGGTC ACAAACAATC CTCCAGCCTC ANCTCCCAA  
 AGTGTGGCA TTACAAGCAT GAGCCACCAT GCCCAGCTTA AGGGGATAT TTTTATAGAG CATCTTGCCC TGGTCTGGA  
 ATTCTCTGTA GATAATACAG TTAACAGATA TTCCCTAAG TGAATAAGAA CCTTCCATT TGACTGATTT TNCAGAAAAG  
 TTTACCTATG TAACCTCAGT GGTAGGCA ATGCTGCA CATCTTCTG GTCCAAATGT CTCT

SEQ ID NO:2232: (Length of Sequence = 354 Nucleotides)



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CCTGCCACTG AGGCAGGTGC GGCCCCAGGA CCATCACCAG GAATGCNAGG CCACCCTGGA CCAGAGGTAG GAGCCCAAGG  
 TCCGGCCCTT GCTCTTTGAT TGTGGGCAGC CTCTGCOCT CTCTGGGTCT CAGTTGCCCC ATCTGCAGAG CGAGGAGGCC  
 CGGGCTGGTT GGTCTTGAAG GCCCTTTTCC ATGCCGACAT CATGTCACTC TAGGCCTGGG GTTCAGTTTC CTGTGGCTGG  
 TGATGCTGTG GTTAAGTTTG CTTGACCCCA GCAGCCCGAG GGACTGTCTG AGTCACAGCA CAGCCCCTAT TCGGTGGCTG  
 CTGGTGTGTG GGTCAATTTC CAGCAGATGA ATGT

SEQ ID NO:2233: (Length of Sequence = 414 Nucleotides)

CCCAAAGCCC GCACGATGCA GGCCACTNCG ATTCCACCAA GATGGACTGT GTGTGGAGCA ACTGGAAAAG TCAGGCTATT  
 GACCTGTGT ATTGGCGGGA CATCAAGCAG ACGGGCATCG TGTTTGGGAG TTCTCTGTCT CTGCTCTTCT CCTTGACCCA  
 GTTCAGCGTG GTGAGCGTCG TGGCCTACCT GGCCTTGCC GCACTCTCAG CCACCATCAG TTTCCGCATC TACAAGTCTG  
 TTTTACAAGC AGTGCAGAAA ACCGACGAAG GCCACCCITT CAAGGCCTAC TTGGAGCTTG AGATCANOCT TTCTCAGGAG  
 CAGATTGAGA AGTACACGGA CTTCCTGCA GTTCTACGTG AACAGCACAC TTAAGGAAGT NAGGAGGCTC TTCCTGTGCC  
 AGGACCTGGT GGAT

SEQ ID NO:2234: (Length of Sequence = 394 Nucleotides)

ATAATCCGAG TGCTCCATCT TCAGTGCCAT CTGGACTUCC ACCAAGTGCA ACACCCINCA NTGTGCCTTT TGGACCAGCA  
 CCAACAGGAA TGTATCCCTC CGTGCCTCCC ACCGGACCAC CTCCAGGACC CCCAGCACCC TTCTCTCCTT CCGGACCATC  
 ATGTCCCCCA NCTGGTGGTC CTATCCAGC CCCAACTGTG CCGGGCCCTG GCCCCACAGG GCATATCCTA CACCAAATAT  
 GCOCTTTNCA GAGCTACCCA GACCATATGG TGACCCACA GATCCAGCTG CAGNTGNTCC TTTAGGTCCA TGGGGATCCA  
 TGTTTTINIG ACCCTTGGGC GNCAGGAATN GGAGGGCAGT ATCCTACCCN GTAATATGGC NATATNCATN TNCA

SEQ ID NO:2235: (Length of Sequence = 376 Nucleotides)

CTGATATGAT GACAATAAAG GAGTATGCTG CTGCTGTTC GCTTTGCGTC CTGCTACAA ACGCCTGGTG GACAACATAT  
 TCCTGAAGA TCCAAAAGAT GGCTTGTGA AAAGTGATAT GGAGAAATTG ACATTTTATG CAGTATCTGC TCAGAGAGAA  
 CTGGATCGAA TTGGTTCTTA CTTGGCAGAA AGGTGTAGCA GGGATGTTGT CAGACATCGT TCTGGGTATG TTTTGATTGC  
 TATGGAGGCA CTGGACCAAC TTCTCATGGC TTGCCATTCT CAAAGCATTA AGCCATTTGT AGAAAGCTTT CTTCATATGG  
 TGGCAAAGCT GCTGGAATCG GGGGAACCAA AGCTTCAAGT TCTTGAACA AATTCT

SEQ ID NO:2236: (Length of Sequence = 399 Nucleotides)

TGGCAAGAAC ACTGAAACCC AGCCAACCTC TCCTCAGCTA GGGACCAAAA CCTTTTGTG TGTAGTCCTT CCGAGGTGG  
 AGACTCTTCT GCAGCCAAGG AAAAGGTGCG GGAGACATGC GGAGACTCCG AGGTGGAGGA GGAGTCCCCA GGAAAGCGCC  
 TGGACGCAGG TCTACCAAC GGCTTTGGGG GTGCGAGGAG CGAGCAGGAG CCGGGCGGGG GCCTNGGGAG GAAGGCCACA  
 CCCCAGCAGC GCTGTGCTC CGAGTCCAGC ATCTCCTTCA GCAACAGCCC GCTCTGCGAC TCGAGCTTTA ATGCGCCCAA  
 ATNIGGGCGG GGGCAAACCG GCTCTGTGTC GACGGCACAC GCTTGGAGGA CCNCACTNAG CTGATCTTCT GCATCGAGA

SEQ ID NO:2237: (Length of Sequence = 234 Nucleotides)

AAANTACTAA CATTTTTAAT ACAGTCTGAT CAGATCAATT CACATCACAA GGTCAACCGG GGCTTGCTCA CATGTGNCAC  
 AACTGAGGNA CACAATGTCC CTACCTGCCG GCTGTCCAC CTCTCTGGTT CCCAACAGCA TTGAAACCCC CTACTTCCCT  
 GACCAGACTG GCATTTTTTA AAATTTTGCA TAAACTATT TCTTCCATAG NCTTCAAACA ATCAACTAGC CAAG

SEQ ID NO:2238: (Length of Sequence = 369 Nucleotides)

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ATTTAAGGCT GTACTTAACT AATTGGGCT GAGGATGAAT ATATCAGCCA CAGCACATTA AAGAATGAGC CAAGGATTTG  
 TCATGGTGG TCACTTTTAA AAGTATTGA TTACTGCAAC TGGAGAATGA AAAGTGTATA TTGGTGACGC CAACCTCAGT  
 TTCTGAGCAC TCCTGCTCTG TGGTGAGAAT CAGACAAAAA TTCATCGGGG TGAAAAAAA AAGGCATTAC CTGATTACA  
 CCCTTGCTT GCTAGCCCTC TTCCATTCAT TTCTCACACA GCATTTCCT CIGTTAAATC CTCTCTCTGT CTCAGACCAT  
 TGCTTGCCCC TTCAAAGGGT ATGGTTCAGG CTCCTTTCAA GACATTTGG

SEQ ID NO:2239: (Length of Sequence = 399 Nucleotides)

TTAATATAAT ATTCAAGTCT AGCATTTGCT AATTACAACA AATAAATATT GCCCCCCCC AATCAGTAAA CAAACATTTT  
 TTTTCTCTT TTGCTTTTAA TACAAATATT CAATCACCCC ACCCCCACCC CAAATCTCC TTCTCACTA ACCCCCGTCT  
 TGCATGGTCT CGTAAAGCCC AGGACGCAGT GGTAATGGC ACTTGCACTG GCATGAGATT CAACATCGAT GGGACTCAGC  
 TGGGACTGTC CTCACTCACC GGGTGCAAG TCTGGTCCAT GAAGAGGGNT TCINTCTCTG CTCCCAGGGG AGGGCTGGGG  
 TAAGCGGTGG GTGAGACTCC CTCACTCTCA GTTGGNCTG ATGATGGAAT CTTTGTGCA GCTGAGAAA GGCTAGAGT

SEQ ID NO:2240: (Length of Sequence = 388 Nucleotides)

TTTTCAGAAT TCATCTCTGA CTTTAATGGC TTAAGCAAGA ACATGGTTTC CGTGGCTCCC CCTGGACTGA ATGCTGGAGG  
 ATATATACTT CACAGTCTGA GGCCTGGTCC CAGGAATGC AATCTAACAG GATGGCAAGT GGTTTTGAAG CATATAGATT  
 TTCAGGATGG AAGTTTGATT CTTGAGATTG TGACTCATCC GTGGAAAATA AATGGTTTAC CACCTAAATC TGTATATTCC  
 CATCAGTGGC TTGGCTGACT CAGTTGTAAA TAGGGTACCC TCCATCTGTC TCCCACCAT ATGCTCCACT GTCCCCAGGG  
 CCTCAGTGGC TGANCCCTAG GGGGATTCGA GTTGGCTGCT GGATTCATTT CCTGCAAGCA GGCTGCA

SEQ ID NO:2241: (Length of Sequence = 377 Nucleotides)

CTCCATTTTG TCCTAGTTAC TTTTAAGGTA TAAGCTGAAG TCATTGATTT GAGATGTTTC TNCITTTCTA ATATAGGTGT  
 TTAATGGTAC ATATTCTCC CTAAGTACTG CTTTAGTGGC ATCTGCAAA TTCTGACATA CTGTGGTTCA TTTTAATTCA  
 TTACAAAATA CTTCTTAATT TCCCTTTTGA TTTCTCTTT AATTCATGGG TTACTTAGAA TTGTGTATT TAATTNCAA  
 GTACTTGGCG ATTTATCTCT CTCTGTATT CATGCTAAT TTAATCCAG TGTGGTCTGA GAATATATTT NGATATCAAT  
 AAAGCTACTC CAGCTACCTT TTGATTAAAG TTATCACAGT ATATCTTTT CTATCT

SEQ ID NO:2242: (Length of Sequence = 381 Nucleotides)

CCCACATTAA CCRAACACAC ACACACATGA CAACTCTAA GTCTCCAGAC AGACACCTC AAATAGGCAC TTGGTGTTTT  
 CAGCTGGGGG CTGGAGAGAT CTGGGGCTTT GGCTCCAAA GGNAGGAGCT GCTGTCCCA GAGAGGAGAC AACAGCTTCT  
 GGAGGCTCTG GGGACTCATT GGATGGGTAC TGGCTAGGTA GATGGGAAG GGGCTGTGT AAAGAAGACC CCCCACCCCC  
 ACTGCCCAT TCACCACAAC AGTGACTTGC TGGAGTTTT GTGCCCTGCG GATTCTGAA TATAGTGGAC AGGCATTTCT  
 AAAGAGCGCA TCACTGAAG GGCAGAGGCT NGCCTTTAA TGTGGGCTTT GCATGTTTTG G

SEQ ID NO:2243: (Length of Sequence = 359 Nucleotides)

ACCATTTATT AAATCAGACT GTTATTCTTA ACAGTTATGT AAGTACATG TATGTTTAA TCAGAGTATT TCACATGGAA  
 AAGTTTTTAA CTCCTATAGG CAAGCAAAAT CATATCACAC AATATATAAG TGGGAAGGGG ATACTGCTAA ACATTCAAAT  
 AAGCAAGTA TATAAAACCA ATAAACAAT AATGAAAAA TTCAAGCAAT CCTTTAAGAG AATTCACAC TACAAGCTAA  
 ATGACTTTT TGAGTGTATT CGTATAATCA AGGCAGTGT TCTCCTTTTA AAACATCAGG AAATGGAATA AGGCTCATTA  
 GTAGATCAC CTGCCCTCAA GATTCATTT TCAATTCG

SEQ ID NO:2244: (Length of Sequence = 362 Nucleotides)

466

ATATGTACTA CATTGGTGG AATACGCATG TACAATTCCT CAAAAATAGT AAAGAGCAAA ACAAACAAA AATAGTAGAA  
 GCACTGGAGA AATACACTAT GGCATAAACT AGTTACGGGT GGGATGTCAC ATGGACCATA TCTACACTCT GTGGCAACCT  
 TCTTACCTGA CTCCAAAGGA TCAGATAATC AAACAGGAAA TTATGGTAGG AAATCAGAAA ATTGAAGTAT GCATTCATAT  
 CCTAAGCATT TTATTTTAGC TCAAAATATA AAATATTCAT CAGTTAGCCA AGCTTTGGGA TGAGAGATCA TAGCCTCCTC  
 TTGATAGGN GTTCTTGTT TTCTTGATT CATGTTTCAG AG

SEQ ID NO:2245: (Length of Sequence = 333 Nucleotides)

AAGGATCTGA GCGAGTTCAG TGTCATTGTG GGCAACGGGG AGATTAGCT GCCAGTGGAG ATCAGTGGGG CCATCGAGGA  
 GGAGTTCCT GTGGCCCGAC TCTACATCAG CAAATCAAA TCAGAAGTCA AGTCTGTGGT CAAGCGGTGC CGGCAGCTGG  
 AGAACCTCCA GGTGGAGTNT CACCGCAAGA TGAAGTINAC CGGGCGGGAG CTCTCATCCT NCCAGCTCCT CATCTCTCAG  
 CATGAGGCCA AGATCCGCTC GCTTACGGAA TACATGCAGA GCGTGGAGCT AAAGAAGCGG CACCTGGAAG AGTCTTATGA  
 CTCCTTGAGC GAT

SEQ ID NO:2246: (Length of Sequence = 347 Nucleotides)

AAACTAGCTT TGGTGGGAAC TCCCTCACC CTGCTCCCA CAGGAAGGCA TTAATCTATT TATGAGGGAT CTACCTGCTA  
 TAACCCAAAC ACCCCACCAG CCCCATCTC CCAACACCAC CACACTGGGG ATTAAATTTC AATGTGGAT TTGGAGAGGA  
 CAAATATCCA AACCATAGCA GTCTTAAAGT ATTTAAATTA GAATTTAAAT TAAATTTAA ATTACAGTAT TAAATTAGA  
 ATCATTTGTG GAGTTTCTAA AAGGTATGCA TTCTTAGGCC CCTCTCAAGT TAGATTATG GACACTGATC CCCAGTCTGG  
 AATTTTAAAA CAGCAAAATC TCATACT

SEQ ID NO:2247: (Length of Sequence = 357 Nucleotides)

CACAGGACAT GTCGCTCAG CACAAGCACT CCCAAGTCAA TCTGAAAAGC AGGCAGCAGC ATTGCAGGGG ACAGGTCTCT  
 CCTGATCTG GGTGGTGGTC TTCTCCCACT TAAAGCACTA TATACAGGGG GAGGTCCAG GCTGGACATC TTTACCAGGG  
 GCTGGGAGAA AGCAGGCGT GCTCTGTGGT CTCAGAGTCT TCCTGGCGCT CTTTGGAAAC TGACAGAACA TGACCTCAGT  
 CCCAGCCAGC GAGTGGCAGA GAGGACTTTG TACTTGGCTG CAATAAAACA TGCCCTTCTT CGCAGAGACA CGAACAATCT  
 CGTCTCTACC AGAGGCCTGT GAGACATCAG CTCAGGA

SEQ ID NO:2248: (Length of Sequence = 327 Nucleotides)

TTCTCTTAT TAATGGCTAG AAAGTCAGGT TCACCAAGG AAGTCACTGA GGGCCACAG CATTGAAGGG TATGGGGTTT  
 GGAGAGATAG GAGCAGACC CACCACTCAG GTCCAGAACC CAGGGGGCAC ACCTGGTCCA AGAGGTGGAG GCATTGGTCA  
 CTGGAGTCAC GAGGGTCAGG ACAGGCACTG AGAGGCTGAG GGAGTNTGG TCCGGAGGGA GGCAGTCAGG GGCTAGGGCT  
 GGGAGTCGTA GCCAGTNTGC AGGGCCTGGG AGCCCCAGGG CTGATGCCCT GGGCTGGCGT AGTACTCCAC CACCTGCCGT  
 GGCACCT

SEQ ID NO:2249: (Length of Sequence = 404 Nucleotides)

ATTTTAAAT TAGGTTTGT TTATTTAAGT TTAATGTAA TTCCATGCTG TGTTTCAGTA AGACAATAC AGATTCTGTA  
 TCTGTGGCTC CAGTCAGATA TCCAGTAGTA CAAATTAGCT TCAAGTTACA CATACTGAAC AAAAGAGGTT GAGCGAGCGA  
 AGGAGGGGAG GAGTGAGGGG AAGGAGGTAG GGGGAGGGG AAGGAGAAGA AACAAAAGNN TTGAACAGGC ATGCAGGCTT  
 TTCTTATCCA CCTTCAAGC TAACCTGCTT CAGTGGGAGA GTAAAGTAGG CAAGANTGAG CAGCCACGGG ATTGTTGAAC  
 TGTTACCCAG CACCATGCTT TTCAGCAACA TTTTCAGCG AGTTTGGAA CATTTTAA CCAGCAAAAA GCATTACACC  
 GAGT

467

SEQ ID NO:2250: (Length of Sequence = 275 Nucleotides)

TGCCAAATAT ATATATCTGA ACATAGTGAA AAAGTAACAT TTAAATCAG TCAAATTATT TTTAAAATTC CTTTGCTTAA  
 TAGCCATTAC TTACTCACCT TTTGTTTTTG TTTTINCCTT CAACTACTAG AGTACTGTAC TTTTGCTTTC ATTGCTTCTA  
 TACATTCTGC CTTTCATCCT AAATGTTC ACTCGATAGT GCTAATATTG GTAGATAATC TACGCTAGCT GCTGTTTCTT  
 GTACAGAAGT TGGTTGATAT CGCTGATTCA CTTTT

SEQ ID NO:2251: (Length of Sequence = 426 Nucleotides)

GGAATAAGGA GATGAGAGCA TGCTCTGCCA ACTGGCTGGG ACCTGAATGT GCTAGGCAAG TNCCTACTACA TCAGCTCAAG  
 AACATAACA AAAATGTAAT TTAAAAACA GATGGTTTAA AAAAATATCT GATAAAAATT ACCIATCCCT CTCCTTGCT  
 GTGAAATAAT TTAATAAATT TATCTAGAT GTAAAAATA TAATACAAA AAGTTTGTTT AAAGACACCT GTGTCCTGTT  
 TGTAAAGTGT GCAGTCTGGG TCCCTTGGGG TGGAGGGAGC TGGCCAAGGA ATGGCATTTG GCAGAGGCAT ACCGGGAAGC  
 TCTCTGGATG CAACCCACC TCTACCGCTT GGCAGTCAAT GACCTTGGGC ATGATGTTTC TTCATTCTC TGAGGGCTAG  
 GGCCTTGATT CTGAACATGG GGGGCT

SEQ ID NO:2252: (Length of Sequence = 315 Nucleotides)

GAAAAGATAA ACAAATTAA TAGACCATTA GTGAGATTAA CCAAGACAAC AGGAAAGAAG ATCTTAATAA GCTCAATTAG  
 CAATGAAATG NGAGCTACTA CAACTGATAC CACAGAAATA CAAAAGATCA TTCAAGGCTA CTATGAACAC CTTACAGTGC  
 ACAAACTAGA AAACATAGAG GAGATGGATA AATTCCTGGA ATTTTAAGAN TAATACATG GACTTTGGGG AATCAGGAGA  
 AAGGGTAAGA GTGGGGTGAG GGATAAAGA CTACACATG CATAAGTGT ACACTTCTTG GGTGATGGGT GCGCC

SEQ ID NO:2253: (Length of Sequence = 335 Nucleotides)

AGATTTATTC TCATGTACAA AGCGGTCAGC CCACGGGACC ATATACGACA GTTGCACAGA GTCTAGAAA AACGCATCTN  
 TCTAAAGGCA ACTCAGAAAG GTAAGGCAGG TGGACCCCT CCCCCACCC ACAAAGCACA CAGAATGAAA CGGAGAAAAA  
 GAGAGAAGCC AGTGGCCGGG CTGACCCAG AGTCCCGGCC CTATGGGTC TCCCAAGCCC CAGGGCACAG GTGGATATGG  
 CCTTGAAGAG AGAGCCCTGC CAGGGCTNAG GCCAGTCTC TACTTGCTG CAGGAATNGG TAAGGGGCTC AGGCCAAGGG  
 GAACACTTCA GGGGG

SEQ ID NO:2254: (Length of Sequence = 380 Nucleotides)

GGAAGGCTCT GGAGAGGTTT CTGCAGGATT ACTTTGATGG CAATCTGAAG AGATACCTGA AGTCTGAACC TATCCAGAG  
 AGCAATGATG GGCCTGTGAA GGTAGTGGTA GCAGAGAATT TTGATAAATA ATATACAATA ATCAGATCCA CTTCCACCA  
 CCTACACAAA AAACATTCA TACAGACTGC AGTACAGTGA TTTTTTTT TGAATAAAA GGTCAAAATT GTTTCATTTT  
 CTCTCTGCA GATTCTAAGT AAAAAATGAC AAAATATGCA TAGAGATGTT TGTAACCAA AAATAAATGT CTAGGGCCCC  
 GAACCCATCT GAATGGGACC CCTCCTCTCA GCCAAGGCA TTCCAAAATT AACCTGCAAA

SEQ ID NO:2255: (Length of Sequence = 399 Nucleotides)

ATATAAAAAG TGTTTCTGTG ATTCTNCAGA GCCCAGGAGT CAGTGTGTT GGTGGAGGG ACCTGCCCCC ACTGGTTTAT  
 TTAACCTCTT GTCTCGGTGC CCTCAGAACC TCAGCCAGAA AGGCAAGGAG GAAATCAGAG CAGGAGCCTC ATACTCTTGG  
 TGATCTATTC ATTCTGTGAC CTCAGGGGTC ACATATAAGG TCAGTGTTC TGTCCCCGC CGGATCTGCA CTGCCAACTG  
 GAATTGGGTT CGAACAGCTT CATAAACATC TTCAGCATTT TGTACCATCT GCTCCCAAT GGCCAAAATC ACATCACCAG  
 GTGGCAGACC CAGCCCGGTG TGCAGGGGAG CCCAGGATCT CTTTATGGGA TGAGTACAT ATGCTGAACA TCGGGNAAG

SEQ ID NO:2256: (Length of Sequence = 371 Nucleotides)

468

TTTTTTTTTT TAACTGTAAA TGCTATTTTA TTTTAAACAT TTTTGTITAC AAAAAAAAAA AAAATCAATG ATTGGTACCT  
 TTTTACACT CTCAGATTCC TGAATATGGA CAGATCTTCA AAGGGAGGAA GGAGTTCTCA TATGAAATTT AAGATAGACT  
 GTCTGAAGG TTGTGGGGTG GGGTTTTTIG TTGTGTTTAA ATTGCTTTT GTTTTTTAAGN CACAATAAAG CTAAAATGTC  
 AAGTCTCTGG GAGAGATCCC CTTAAAGTTT CAGTCAAGGA GCATATCAGA GCACAGACAA GNGACCCCA GCCTGGTGCC  
 CGCGGGCCCG TCCCGGCTGC CCAGGNGTAT TTGGTAGCGC ATGGGTTGAG A

SEQ ID NO:2257: (Length of Sequence = 372 Nucleotides)

AACTCTATGG CACTAATGTA TGATGGATTC ATTTCCAGAC TGTCGGCCAC GGAAGCACTT CTTCATGGCC TCTGCCCTGG  
 ACAGCAGCCT GTCTCCGGG CTCCCATGT TTTTACCAGC TTCTGCTGAG TTTCTACAAT CTTCAGCTCT GCTGAGAAAT  
 CTTTTCCITG AAATTCITCT ACCTAAAGCC CCAGCCCCCA AAGAGCATG TCTCAGGAAC TCATTATGCC CTGAGTCAAC  
 AAGAACTTGT TGATAAATGG CTTAAAAGTT TTTACAAGAA GTAACTTCCC TTGGTAAGGA GTAAATAATA GCTCTGGGAA  
 TTTTCCAGAT AAAACTATTT CATTTCTCTG GTCAGTGGCC CCATGGGGAG AG

SEQ ID NO:2258: (Length of Sequence = 340 Nucleotides)

CTCAGCCTCC TGAGAACCTG GGATGTCAGC CTCCCGAGAA CCTGGGATG CAGGCACCTG CTGCCATGCC CAGCGAAGAT  
 TTTGTATTTT TAGTGGAGAC GGGGTTTCAC CATGTTGGCC AGCGGGTCT CAAACTCCTG ACCTCGTGAT CCACCGCCT  
 TGGCCCCCA AAGTGCTGGG ATTACAGGGG TGAGACACCA CGCTCGGCT TTATATATAT TTNAGAGAG GGGTCTCAT  
 TTINTTGCC AGGCTGGTCT TGAATCCTG GGCTCAAGCA ATCTCCCGC CTCAGNCTCT CAAAGTGCTG GGGATTACAG  
 GCAATGAGCC NACCGTGNC

SEQ ID NO:2259: (Length of Sequence = 394 Nucleotides)

CCCCCAGAT CCCACTGTA GGAGAACGCC TCTGCTAACA TTTTCTCTAT CTGTGTATCC TCTGGGAATG AGACCCACTA  
 AAGGGCTAGA GTGTGCTCA GTGTGAATTC CTCTTCTCG ACTCCATCTT CGCGGTAGCT GGGACCGCCG TTCAGTCGCC  
 AATATGCAGC TCTTGTCTCG CGCCAGGAG CTACACACCT TCAGAGTGAC CGGCCAGGAA ACGTCCGCC AGATCAAGGC  
 TCATGTAGCC TCACTGGAGG GCATTGCCCC GGAAGATCAA GTGTGCTCC TGGCAGGCGC GNCCTGGGA GGATGAGGCC  
 ACTCTNGGCC AGTNGGGGT GGAGGCCCTT ACTACCTGG AAGTAGCAAG GCGCATGCT TTAGAGGTAA AGTC

SEQ ID NO:2260: (Length of Sequence = 359 Nucleotides)

TTTTTTTTTG AGATCTGAGA TTCTTTAAT CAGAAGCAGC TGCGTCCAC AGTGTGCTCT TCAAGCCCCA AAGGGCACGC  
 CTCTAGGACT GCTTCTTAG AGCGAGGCTC GGGCTCTTGG TAAAAAGCA TTGCTTGAT TTTATTTAAA CAATGGTGAA  
 TCTTCAAGGT GCCAGTCTAC ATGCCAACA GTCTCCAGG NTCAAGGNC ACAGTCACCG TCACTCAGAG ACTGCCTCAT  
 TTAGCAAGAG AGAAAAACAG TGACCACCAC AGAGGGCAGG GAGTGACAAA GCTTGTAGGC TAATGCTGCA AAAGCCGCTA  
 GAAACTGGGG GCCACACACA AGNGCCANC AGGTGCGCC

SEQ ID NO:2261: (Length of Sequence = 360 Nucleotides)

TTTTTTTTTT GAGACAGAGT CTCGCTCTGT CGCCAGGTTG GAATGCAGTG GTGTGATCTC AGCTCACTGC AACCTCCGCC  
 TCCGGGTCC AAGCAATTCC TCTGCTCAG CCTCTGAGT TGCTGGGACC ACAGGCGCAC GCACCAGCC AGGCTAATTT  
 TTGTATTTT AGTAGAGACG GGGTGTACC ATATTGGCCA GGCTGGTCTC TTCGAAATCT TAAATCCAAA CATTTCTATT  
 CTCTAGATC CCTGCTCAG GCGAATCCTT TCATCTTTC CTATACCTC ATCAGCATGT AAGTGTCTG ACATCTCTCT  
 TCTCCTTCCC TATTAGCTCT CTACTCTCIN CANTTACAG

SEQ ID NO:2262: (Length of Sequence = 348 Nucleotides)

469

CTGTCAAAAA TGTATTATAT CAATAATTTT ATCAGCAGCA TTTAAGAAAT AAGAAATCAT TAGACAATAG AAGACAAACA  
 TGGTAATGCA GTCAGGCCAG CACACAATAC ACCGTTTTCA TCACACACTG TAACCTGAAT CCTGGCAAT TTCCTAGAGG  
 TATTAACATC ATACCTTATT AAGAATTATT GGGCCCNAGG AGTNGGGGGG TGGGGGGGTT GCAATCTGTC CAATCAACAT  
 CTGGCTCTTA CTTTCTCCCN GTAGTATTAC ATTTGTATAA TATTCCTATA GGAACAACCT CAATCCATG TTTATAAAAG  
 CACCATAAGG TTTTCCATC CTGTACCA

SEQ ID NO:2263: (Length of Sequence = 352 Nucleotides)

CCCCAAAGT TGACATGGTC AATGAAGAAA TAGGCAAACA GCAAAAGTT GCAGTCATAC ACCAAATGAA AGAAGATCAA  
 AGCAAAATCC CTGAAGGAAT CCAAGTTGAC TCTGACGGGC TAATCACCAT AACAACTCCC ANTAACTTG CCACGCTCAG  
 TGTCGAGCC ATGCCCCCTC CAGAAGAAGT CACCCAGNT CTGGAAGAAA ATAGTGANTT GATTCGTTCT ATGGAGCAGT  
 TGACATCCTC TTGAATNAG GGTGAAAATA CTCACATGAT TCATCAGAAG ACCCNNGGA AAATTTNGGA ATTCAAAGGA  
 AAATTTNAG CAACANCTAA CAGGGNGNTG AT

SEQ ID NO:2264: (Length of Sequence = 381 Nucleotides)

GCTTACAGTC TAGAACAGC TTTTCCAGCC CACAGCCCAG GATGGCTTTG AATGTGGCCC AACACAAATT CATAAACTTT  
 CCTAAAACAT TATGAGATCT TTTGTGATT TGTGTTTAG TTCTACAGCT ATCATTAGTG TTAGTGATT TGTGTGTGG  
 CCAAGATAA TCTTCCAAAT GTGGCCAGG GAAGCAAAAA GATTGGACAC CCTGGTCTA GAAGGAAAGG CAAATATTAA  
 ATAACCTCAG AAAGTGATAT TACAAATTGT GGTGAGTTAT AAACACACTA TCAGGTGTTA TAAAGGAAGT GAAGGAAGTG  
 GTGAGGAAAT TCTTATCAGG GNAGTGATAT TTNANTGAAG GGCTTAGGG GATGAGTAGG G

SEQ ID NO:2265: (Length of Sequence = 301 Nucleotides)

CACTCTTCT CCACTCTGCC TTTCCACAGC AGTCAGTCTG GTCCAAGCCA CCATCATCTG TCACCCAGAC TACCATAGCC  
 ATCTCTTAC TGGTCTCCC ACTTGCCGTC TTTATTCTGC ACACAGCAGC CTGAGTTCAT ACACACAGT GCATTTCATC  
 ATATTTTGT TAAACTGTT CAATGGCTTC CCATGGAAGT TGGGAGTCTG GATATCTTCA CAAGTGIGIN GCATGGCCCA  
 GGACCAATCT GGACACCCCT NCTGTCTGT NCATNCATGC CTTCACCCAC TTTTGGCCT T

SEQ ID NO:2266: (Length of Sequence = 360 Nucleotides)

CGCTGCATG CCCACAACA ACACAACCTT ATTCTCTCC CAAACATCTG TCAGGCCTGG CCTTCTGAG CAGGAGCTGA  
 GCAGGAACAG GGCTGGCTG CCTCTCTCT GCCACAGCTC TGACCTGGC AAGGCTGGAA GCTGGCATG TAATGGATGG  
 GGGAGTGGT GGAGGATCTG AGGTCCCTT GGTAGGTTT CGATACCTG GACAGGTGG CCTCATCTG ACTTAGAACT  
 CGGGAGGGG CCACTCTTC TTCCCTTCT TCCAGCAGCA GCTCCACCAC CTCCACCTT CTGTCTCGA CATGTGTC  
 AGAAACCCA GCCATGAGG ACGCTINTGA GGAAGGTCT

SEQ ID NO:2267: (Length of Sequence = 391 Nucleotides)

GATGGAGTCT CGCTCTGCA CCCAGGCTGG AGTGAGTGG CAAAATCTCG GCTCCGGACC CCCCAGAC ACATATGACC  
 CACCACCCA TCTCTGACA TGAGGCCAC CTGAGGTGCT GGGCCCTGG CTCTACCT GCGGAGATCA CACTGACCTG  
 GCAGCGGAT GGGGAGGACC AGACCCAGGA CACGAGCTC GTGGAGACCA GGCTGCAGG GGATGGAACC TTCCAGAAGT  
 GGGCGGCTGT GGTGGTGCT TCTGGAGAG AGCAGAGATA CACCTGCCAT GTGCAGCATG AGGTCTTCC CAAGNCCCTC  
 ACCCTGAGAA TGGGAGCTG TCTCCAGC CCACCATTC CCATGTGGG CATNATGCT GGNCTGGTTC T

SEQ ID NO:2268: (Length of Sequence = 191 Nucleotides)

470

CTTTCCTCTC CTGTTACAC AGTATTCGAT TATTTCAATG GCTACTTTCA GAGGATCAGC TAGAGGCTGA TGTGTTGTTT  
CAATGGTTAT ATTATTTATG AACTGAGAGT AGAAGAAAAA TTTGAGAGCA GGTTTTTTGA AAAAATGAAT TTAGACAAAT  
ATTTAGTAAC TGTATGATAT ATAACCTCCC N

SEQ ID NO:2269: (Length of Sequence = 237 Nucleotides)

TAGAAGCATT TTTTAAACAA CACTCAACTT TGGAACCCC TGAAGATTTT TTGACCGTTC CAAGTCTTAA TGCCACACCA  
CTATTCCAGC GAATTTATGC TACAACCTGT AACAAATGACC AGAAGCCTGA AGAATTAAAA TGCCAACACC AAACCTTTCC  
NTACCAGCTC TGGNCTATAT TGCTCCCATG CATTTAATAT ATTATNNGT TTTATANCCA CTCTAAATA TTCTCAG

SEQ ID NO:2270: (Length of Sequence = 223 Nucleotides)

AAAGGTTAAG GAATTTCCIT TATTTTTTAC AAATTAAGAC TATGCAGATT TCATATATTT CTGAATCAAA AACACCTTTG  
TCTTCACAGT ATGAGTTAGA ATGCAGCCTG AGCTGAAAAT CAAGAACTA GAAAAGAAAG TGGTAGAGAT AACTATATTA  
AAAANCTGTT AGGTATTCC TTAAAAAGTA GGIGTTTTTT TTTTTTNCC NCTTTTTTTT TTT

SEQ ID NO:2271: (Length of Sequence = 363 Nucleotides)

TTTGATGGGT GAGGCTGGTA GAGCCACTGG GAGAATGTGG GGCAGTGAGG GGAGGGACAT CTTCTAGCA TCACCAGCAT  
CCTGAGCTTT GTCCTTGIT GGGAGTCCA CAAGGGCTGG TGCAAGGNT AGCAGCTGCT ACTTGAACCC TAATCCCTGG  
GTGGATGTGG TCTCTGTAA CTTAAGAGCA AATGTTTGIN ATGACATGCA CGGGTGGGCA GAGGTTGAAA AGAACAGGGG  
TCTACGGAGG AGCCAGGCCA GCCACGTGAG ACCCTTCTTT CTAAGTTGGC TTCTTGTTCA TTCTGGGGA TTNGGGGAAA  
GAACGACAGA ACTTACCTTC CATCTCTCTT CTCACAAGCA GTG

SEQ ID NO:2272: (Length of Sequence = 150 Nucleotides)

CTCCCCCTGT AATCCAGCG CTTGGGAGG CCGAGGCGGG GGGATCAGCA GGTCAAGAGA TCGAGACCAT CCTGGCCAAC  
ATGGTGAAC CCGTCTCTA ATAAAAATAC AAAAATTAGC CGGCATGGT GACGTGCACC TGTAGTCCCT

SEQ ID NO:2273: (Length of Sequence = 330 Nucleotides)

TATATTATGT TAATAAAATC ATGTATAAGC AAAAGACCTA TGAAAGTATA AAACAGACCA ATGGATTTTA GTATAAAAGT  
ACAAAACGTT CATTGAGGTG GGTTCAGTTT TCCACAAAA ACTAACCTTT AAGAACTAC CACTTATCAA GTTTTGGTAT  
AAGGTATAAT ATGAAAGANG AAAATCCATA ATTATTTGAA AAACACGNT TAAATACITT CTTTTTTTCC TACTACATAT  
CTCTATTAGG CTGGGTTTTT TCACAACCTA ATTGAATACA AAAACAAATA TGAGNATTTA GCTGTAATCT ATTAATCCCG  
ACATTACAGG

SEQ ID NO:2274: (Length of Sequence = 372 Nucleotides)

AAAAAGCCAG TTGCAGTGT ATATGCCTAT TGTCACAGCT AATCAGGAGG CTGAGATGGG AGGATAGCTT GAGCCCAAGA  
GTTTGCGACT GGGCCTGGGC AACATAGCAA GACCTATCT CTAAATCAAT CAATCAATCA AACAGTGGTA TGCCACCCAG  
AATAAGTATC TTTTTTGAAG TAAAAACAA AAAGCGAAAT GGAACAACA GGTCTGGTAG TGGTGGCTGT CTGTCACTGA  
CAATGAGGTC TCTGCAGAGC CGTCCCTAC CCTNCCCAAC CCCCTAGACA TCAGGTCCCT TTCCTAGGAA AATGAGAGCA  
CAGACCTAGG NCCATGGNCT CCCAACTTT TTCTTCTCTT CACTACAGAT TC

SEQ ID NO:2275: (Length of Sequence = 370 Nucleotides)

CTTATCTTT TCTGAGGAT GTTGGTTTTA TATGGATTGT CTTAAGCAT CACTTGGAAA CGCTACAAAT AATGCAGCTA  
AATGTTTAAG CAATTAGGAA ATAGGAATTT TTAATACAG AATTTTGAC TGCAGAGTGT TTACAAGTAT TAAAGATTG

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TATTACACAA CTGTTGTAA ATTCTAGTAA GATAAATTGA TACTAAAGAA AACAAACCCA GAAAGATCAA GTGACTTGGN  
 TCACACAACA CAGGNATTAA GANGGAAATT AGTATTCTTT GTTGGAAATAT TTTCCATTGG AATAGTTACA GGAAAATTTA  
 TTTGCATATT TTACAAATTA AATGTGTATT GGACATCATA GTGGGGAAAT

SEQ ID NO:2276: (Length of Sequence = 349 Nucleotides)

TCTCCAGGTC CTGGAGGCAA CCGCAGAAAC AGAACANTGC AAATGCCAGC ATTTCCGCAG ATAAGCGTGG CCGCCAGCT  
 GCAAACACCC CTGACATGCA GCGTCTGTT TAAAATCTGG TTGCCCCGTG CAGCCAGTGG AGCTCAGAGG GCTGCCITGGC  
 GGGTAAGGAC TCCAGGCACA CAGCAACAAG TGGCTGCCAC CTCAAATCCC ACGTGGAAATA TGATGGGGTC CGAGCCAGCC  
 AGTAACTCCA NGAGGGCTGT AGTGTGTAAAG TTCGGCCAGA GTTTCAGAT ATAATANCAT TGGCCCCACG ACGTAGACCT  
 GTGGCGGCTC AGGGTTAAGA GACGGGAGC

SEQ ID NO:2277: (Length of Sequence = 182 Nucleotides)

CTTTATATAG ACTCTGGTTC TAGAACTCG CCTGCAGCCG CTGGCTGGAC CAGCACACGC TGACGGGGCC GGACTATTTA  
 CAGGCCCAT TCGGGCTGTA CCTTGGCCAC CTNCCGCAC GGTGCTCAGC TGTGACGNCA AAATAAGTTA GGGCCGGCCG  
 GCGGGGGCGG GCGGGGAGC GG

SEQ ID NO:2278: (Length of Sequence = 276 Nucleotides)

GTATTATTTT CCCCAAATGA AGCAAGCAA GTACTGGGC GGAGTCATCA GAAATACCTT GGGAGGTGGT GGGGAGGGGA  
 GTGGGAGCA TCAGGAAAA CCCATCTCAA CTCACGCTC TCAGGGGTG CAGCTGGAAA NTCTTGGCTT TTCCATCACT  
 GGTGCAGAAA GAACCTCCCC AGGAATGGCC AGTGGCCTT CGCCGTAAAC AAGGCGCAC GCTCAGAGCA GTCTTCTCC  
 TGGCTGGGT GGACGCGGAG GCGGAAGGA AAGCCT

SEQ ID NO:2279: (Length of Sequence = 193 Nucleotides)

TGCACCATG GCGCTCCCA GAGCCCCAGG GCGCTGAGC AAGCAGGGCT CTGGCAGCAG CCAGCCCATG GAGGTGCAGG  
 AAGCTATGG CTTTGG . GGAGATGATC CCTACTCAAG TGCAGAGCCC CATGTGTCAG GTGTGAAACG GTCCCGCTCA  
 GGTGAGGGCG AGGTGA . CCTTATGCGC AAG

SEQ ID NO:2280: (Length of Sequence = 401 Nucleotides)

GTGATTTTCC TGTCTCGTC TCCTGAGTAG CTGGGATTAC AGGTGCCAAC CACCAGCCCC AGCTAATTTT TGTAGTTTIA  
 GTGGAGACGG TTTGCCCATG TTGGCCAGGC TGGTCTCGAA CTCCTGACCT CAGGTGATCC ATTCCCTCG GTCTCCCAA  
 GTCTTGAAT TACAGGCATG ACCCATGCG CCGGCCCCA CTGTTCTT TCTAATCGAG TGAGAAAATG GTCAGTATTT  
 CTGTCAACAA AATTCATGAG GCTCTTTGTA CGCACAGGAC TTCAGGCCTT TCTCTCAACA ATGCCAAAG CTGGAGGCAT  
 CCACAATGGA GNAACAACCT GGGGGTTTGT AAAAAACAGG GAATGTTTCC AGAATINTTC TTCAAGAGTA TTTACATTTT  
 T

SEQ ID NO:2281: (Length of Sequence = 217 Nucleotides)

AGCAGGGGA TTGTCCAAGG GTCTCCGCGC GCCCAGGGCA GTGGTGGTGG CAGCAGAGT GCCACTATG CAGTCAACAG  
 CCAGTTCACN ATGGGCGGCC CCGCATCTC CATGGCGTGG CCAATGTCCA TCCCGACCAA CACCATGCAC TAOGGAGCT  
 AGGGCCCCGN CCGCGNAAC TNACAGCACC AGGAAACCAA ATGNATGTCC CTGCCCG

SEQ ID NO:2282: (Length of Sequence = 302 Nucleotides)



472

CCGATGGTGA AGTGGTAAGA GGTGATGGC CTGGGAGTTC ACTTTATTAT GAAGTAGAAA TTCTGAGNCA CGACAGCACC  
 TCCCAGNTTT ACACGTGAAA GTATAAAGAT GGAACAGAGC TTGANTTGAA AGAGAATGAT ATTAAGNCTT TAACTTCCTT  
 TAGGCAAAGG AAAGGTGGCT CAACTTCCAG TTCCCTTCC AGACGCCGAG GGAGTCGATC AAGGTCACGC TCCCGATCCC  
 CCGGTCGACC ACCTAAAAGT GCCCGCGAT CTGCTTCTGC TTTCCACCA GGGCGACATT AA

SEQ ID NO:2283: (Length of Sequence = 314 Nucleotides)

GAAAAAGTGG AAGTCATCAC CGGGAGGAG GCGGAGAGCA ATGTGTTACA GATGCAGTGC AAGCTGTTTG TTTTGACAA  
 GACCTCACAG TCCTGGGTGG AGAGAGGCCG GGGGCTGCTC AGACTCAATG ACATGGCGTC CACCGATGAC GGCACACTAC  
 AGTCCCGACT AGTGATGCGG ACCCAGGGGA GCCTGCGACT GATCTCAAC ACCAAGCTGT GGGCCAGAT GCAGATCGAC  
 AAGGCCACGC AGAAGGAGCA TTCGCATCAC AGCCATGGAC AACGAGGACC AGGGCGTGAA GGTCTTCTG ATCT

SEQ ID NO:2284: (Length of Sequence = 262 Nucleotides)

GGCGTGACAC ACGCGCCCG CCTGTGGAG CATTTTAAAA TCTGATTCCT TTCCCCCTGA AGTTTCCGTT CAACCCCTNN  
 CTGTGGTCAG GTTGATTNCT TTAATTGCTA AAACAAGTCA AAATTCAATA TCCATGGCAG CTGACAATTC AGACTTTGGC  
 ATATAAGTA AAGGGTTTAT TTTTCCATTC CTCTGTAAAT GGTGTGINT TCACTTATTT ATAGTGCTAT GAAGCTGGTC  
 ACCTGGGAGA ATGGCATAAC TG

SEQ ID NO:2285: (Length of Sequence = 193 Nucleotides)

GTGAGACACA GTCTTGCTCT GCTGCCCAGG CTGGAGGGCA GTGTCTCGAT CTTGACTCAC TGCAGCTGAT GCCCCTGGG  
 TTCAAGCGNT TTTCCACCT CAGCCTCCAA GCAGCTGGGA TTACAAACAT GNACCACCAC GGCTGGGTAA TTTTGTGTC  
 TTTAGTAGAG ACGGGGNTTT GCCANGTTGG CCA

SEQ ID NO:2287: (Length of Sequence = 342 Nucleotides)

AGGCTGGAGT GCAGTGGCGC AATCTTGGCT CGCTGCAAGA TCTGCCCTCC AGGTTACAC CATTCTCCCG CCTCAGCCTC  
 CCAAGTGGCT GGGACCACAG GCACCCACCA CGCCTGGCTA ATTTTTTTTG TATTTTTAGT AGAGACGGG TTTCCACATG  
 TTAGCCAGGA TGGTCTCAAT CTCCTGACCT TGTGATCCG CCGCCTGGC CTCCCAAAGT GCTGGGATTA CAGGCGTGAN  
 CACTTGCGCC CGGCCCTCAC CTGTTAGTTT TTCAAGAGGT GTTCGTCATG TCCACTGTGA TAGTTATTTT GTGTGTCAAA  
 CTGACTGGGC CACGGGTGTC CC

SEQ ID NO:2288: (Length of Sequence = 343 Nucleotides)

TTTTTATTGT AATGAAATTT TAAAAGGCAG TTACATTAGT TACACATATA CACAACGAC TTAATAACTG TTAGTCATAG  
 AGAACATTCA AGAAATACAA ATGATTTATC CACAGCACAG TTCACATCCA TAAGAAGAAA GAGAAATGGT TAAGTACTTA  
 AACTGTCCAC TGACACCTGC TTATGAAATC TTTCCTTTC TTCTTTTTT TAAAGGAAAC TGAGATIGTT AGATGAAGCA  
 AGCCGTCTG CTCCGCACA GCCTGTGAAA CCTCCATTTT GCCACTTCA AGGTCACTGC CCCACAGACC CTGGGCTGTT  
 GTTGACCATA AACTAGCTT TGG

SEQ ID NO:2289: (Length of Sequence = 160 Nucleotides)

CGGGCCGCAA AGCTCAGCTC CTGGCGGTCC AGGCCCTGGT GGCTCTTGAT GATCAGGTCC ACGGCGGCTG CCACACGNTC  
 CTCTAGSCCC TTCAGCGCA NAGCGNCTCC AGCACCTGT TGTGCTCCAT GTCTGTAAC TGCTGCACGA AGAAGCATAT

SEQ ID NO:2290: (Length of Sequence = 310 Nucleotides)

473

CCGACTCTAC TGAAAATACA AAATTAGCGG GCGTGGTGA CGCATGCCG TAATCCCAGC TACTCGGGAG GCTGAGGCAG  
 GAGAAITGCT TGAACCGGG AGGTGGAGGT TTGCAGTGAT CACACCACTG CACTCTAGCC TGGGTGACAA GAGCAAACT  
 CTGTCTCAA AAAAAAAAAA AAAAGNTTAA ATGAGGTCAT GAGGGTGAGA CCTGTATCA AGCTCATAG TGTCCTTAGA  
 NGTGTCTTA GAAGTGTCT TAGGACACTT CTTTCTAAGT NTCTAAGIT GGGGAGCTTG CTCTCCCAA

SEQ ID NO:2291: (Length of Sequence = 270 Nucleotides)

CAAGACAGGG TCTCATCTA TCTATTGCC AGGCTGGAGT GCAGTGGTGC AATCTTGGCT CACTGCAGAC TCAACCTCCC  
 AGGNTCAAGT GATGGAATTC CCNAGTTTG TCTTTGACAT TAAGANGACA CCACATATAG ACGGCTGTTT GTCAGTGATT  
 GCCAGGNAT TCATGGATGC ATTINCTCTC ACAGAGCAGC AACTAGGGA GGAAGCACCA ACTAATAAGC TTCTCTATGC  
 CAAGGNTATC CCAACCTACA AAGAAGAAGT

SEQ ID NO:2292: (Length of Sequence = 332 Nucleotides)

CAGTTGTCT ATATTCTCA CCTTCCCTTG GTTTCATTC TCTTCGCTC CTGAATGAGA AGTGCCTGAG ATACCTTCAT  
 TTCTCTTGA AGTATTGATC CAAGTTTGA CAAATATCTC CCTCTGTGT GAGAGAATTC CTTATATGTG AAAATACCAA  
 GACATCTTG ATATTTAGCA GGCACCTCAA TATTTGTCTC CTCTTTTAA GCATAATTAA GCCAGACTGA TGTTTGCAAT  
 TGAGTATCAT CAGCATGAGT AACCNMTTAA ATCTCTCTC CCTTAACCTAC TGTCTCTACA CTAGAGTCTA GGGTCAGGGT  
 ACGTACAGTG AT

SEQ ID NO:2293: (Length of Sequence = 255 Nucleotides)

GCACCTGACT TATGTGAGIN TCAGGCTTCA ATGCCTGINT TAGAGCTACT CCTTCACACA AAATAGTTCA GAACATAGAG  
 AAGGACCAAG GTTAATAAAT GATTTTINATC CCAAACCTA AACATGATTG ATGGGTAGAG GCTGCCCGAA GTACTGTGTA  
 AAGATGGAAT CTGAGATAGA AGAATGCTGT GGTCAATTAG TAATCTTGC CCATGGAGGG ATTAGTGACA CATGCCTTGT  
 ATATTGTCA TCTGT

SEQ ID NO:2294: (Length of Sequence = 236 Nucleotides)

GGCTTCAGAA GCTATTGGAA GATTCATATC AACTTACTAA TAATCAAGCA CTTTCATATT AAGACAATGT ATGATGTTTA  
 GTAAATGTA TTTTINCCATA AAAGAAGTTT AAAATAAATT AGCTATTTC AAGAGTATCAT GGTGTGTCAGC AAATAGAAAT  
 GTTGTGCTTA ACTCAAATCA CAGTAATATT CTGTGGTAGT CAATTGATTT CTTTGAGCCN TTATCTTTC ATCTGT

SEQ ID NO:2295: (Length of Sequence = 308 Nucleotides)

TTTTAATTTA ATCAGTAACT TTATTATAAC AAAACCTGTA TATTACCCAT TTAAACTCAT GTGTAACATT CAGTGATGTG  
 AGCTGTATTA AACCAGGTA TTAGTGAAAA TTGCAATTGT AAAACCTGGT AACAGTAGAC ATCTATGGGT GGTCAATTAAT  
 TCAAGGACAC CTTTATTTT AAACAATTTT ATATAATTCA TATCAATATG CAAATTTACC ATAAAAGATA CANGGATTAA  
 TACATATTTA CATTTTGTAGA AATAGTTACT CTGAGGTGTA CAGCTGTAC TTTTCTAAAT ATTTACAG

SEQ ID NO:2296: (Length of Sequence = 279 Nucleotides)

ACCCCTCTG GAGGCTTTC CCTTCCCAG GCCTTCCCTC AGGGCTACGG TGCCCCGCCA CAGTTTCAGTT TTGGCTACGG  
 GCCTCCACT CCACGCCAG ATCAGTTTGC CCTTCCGGG GINTCTCTCT CCACCAGCA CTCCCGGGC AGCACCTCTG  
 GCTTCCAC CGCTCTGTC TCAGGCTGCC CGGACATGA GCAAGCCCC GANAGCTCAG CCAGANTTCC CCTATGGTCA  
 GATGCGAGT TACGGCCAGC ACTTCAGTGG CTTCGGACA

SEQ ID NO:2297: (Length of Sequence = 306 Nucleotides)

474

CTGAGAAGAA AGAGTGTGTT GTAAAGGACA ATGACTTTGA GCCCAGAGCC CTGAAAGCTA ATGGAGAAGT TATCATTGAA  
 ATTCCAACAA GAGCTTGTGA AGGACAAGAA AATGCTATCA AGTCCCTGGN GCATGTACAA TTTNAAGCAA CAATTGAATA  
 TTCCCGAAGA GGAGACCTTC ATGTCACACT TACTTCTGCT GCTGGAACTA GCACTGTGCT CTTGGCTGAA AGAGAACGGG  
 ATACATCTCC TAATGGCTTT AAGAATTGGG ACTTCATNGT CTGTTACAC ATTGGGGAGA GAACCC

SEQ ID NO:2298: (Length of Sequence = 307 Nucleotides)

AGTACACCTA GTATCTTAC AGTACTATT AAGTATTTT GAACTCAAAG TATATATTCA TCTTAACTC CTGGAACAT  
 GAACCTCCC ATGTAATTIN CTGATGAATG AAAAGGAAAA CTTTCTTCA AATAAGTGT ATCTGTGCA AAAGTATGTG  
 ATTTAAAAAC ACATGTAAAT ATAATCTTAG CTCTAATGTT TTCTTTGGG AGTTTGGGAA AAAGCAGTTA CATTTCTCTG  
 TTGCTGGTT TTTATCATTT GAAAATTGGA AGGATTCATT CTGGATTGCT GAGCTGCATC AGTAGGG

SEQ ID NO:2299: (Length of Sequence = 289

GTTTTTAATG CATTTTTTT AAAGATTAAA GTAAATGTC TCAATTGTAA AAAATACACA CCGGGCAAAT CCTTACCTGG  
 NTAATAAATA TCTACATCAC AGTACAATAA AATTNCINCT CTATAAAATT TAAATATGGA TTATAGTCTA TCACTATCAA  
 AAGAAACACT ATGCTAATAT TTCCATATTA TTAAATAAC AGGAAAAATT ACGNGCTTAT TTTAGAACCT GATGCCATAG  
 CCGTTGGAAA GGGCAAAGAG ATTCAAATGT CGATCATCAC TCTCCATT

SEQ ID NO:2300: (Length of Sequence = 371 Nucleotides)

CACCCATTGA AAAAGCAGCC GCCCTCCTTC CCAGGAGCTG CTGAAGAGAG AGCCTGCCAG AGCCTTGCCA GCAGGGACAG  
 CCTCTTAGAT ACCAGCAGCG TCTCAGAACC CAACGTGTC TTGTCTCNC ACTGTGCGGA CAGCAACAGT GGTGACATAG  
 CTGTATCGN GGAGGTCCGG ATGGAAAACC CAAAGGAGAG TAGCAGTTC CTGAAGACTG GGAGGCACAG CTNAGGCCAA  
 GACAAACCAC ACGNACTTA CCGACTGCTG AAACGCAGGA NTCTGATCAT AGAAGCTGTC ACCAATCTTC GCTTAATCGA  
 GAGTTTATTC ACGGTCAGA AGATGATCAT GGATCAGGAG AAGCAGGAAG G

SEQ ID NO:2301: (Length of Sequence = 287 Nucleotides)

ACTGTGTGTT GGGATTGTT GTGAGGTTG CTGACACCTT GACCATTTT CACTGGCTGG AAATGAAAGG AACTCCAC  
 TTGCTCTTG AAGGCAATTC CATCTCTCC AGGGTCTTA TTCTCTCC ATATTCTCTC AACTCCAA ACTTCTGAG  
 AAGGGAGCAA ACTTTGGCCA CGAGGAAGGA GTGAGCTGC CTCTGTACTT GTCATGCAC CTGCACTGGT TGAATCCACC  
 TTCTCTGGT CACGCCGCTG TGCTGGGTGG TCACAGCCTA GGACCC

SEQ ID NO:2302: (Length of Sequence = 358 Nucleotides)

GGAACACAGG ATCCAACTT GTGGGGGAAC TCGGAGAGAA GATCATGTT GGCGCGTCC TTGGTGGGCC CAAGGATGAT  
 GATGGGGCGA GCATAGTCA CTCCATCTG CGTCACTGTC TGTAGCTCA GAACCGAGTC TTCTCGACCC TCGATCCAG  
 AGCTGGAGCC CAGTCTTG GCTTTAACC TTGACCACTC TGTGCTCA ACCCGCGTT TGCTGGGGAT GAACCAATG  
 TGTGCTCT CACTGTGAGA GTGGACCGC CGTGNCTGCC ACCACTCTC ATCACTAGCA TCGATGACAT GCAGCACATN  
 CCCAAGCGG AAGTTCAAG GCTGGCTCA GGAAGCCG

SEQ ID NO:2303: (Length of Sequence = 403 Nucleotides)

GTGAGGGCT CCAGATCAT CTTCTCAAG GGGCCGCGAG GCGCTCCTT GGCTCTGGC TCTGCTTGC CGCTGGCCTC  
 CPAATGCTC ATGATGGAGT TAGGGATGTA AGCTTCTGG TGGGGGTGA AGGACCGGAC ATGGGCGAGC AGGGCTCTC  
 GGAGCTCTGG GCACTTNTCA AAGACGGCTC CCAGCTGCTG GGGGGCANT GCAGGATGAC CTGGAAGCTC TGGGGCTTTG  
 TGGCTGGCA GCACTTGATG AAGCCCTCCC ACACCTTGG GTACTTCAC AACTGCTTCA TGATGAGGCG GGACAGGATG

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TTCATGACGG AAGCCCCCA GCGGGGGTGA CATGGTCANG GACCTGGATG ACGGTCTCA TGAGCAACAT GGGCAAGGGG  
GCT

SEQ ID NO:2304: (Length of Sequence = 376 Nucleotides)

ATCTTGCTAT GTTGCCAGG CTGGTCTTGA ACTCCTATTC TCAAGAGAGC CTCTGCCTC AGCCTTGTAAG AGCACTGGGA  
TTATAGGCAT GAACCAACGC ACCCAGCCAA GATTGCCATT TTGTATGATG AGACTGGAAG GACCCCATTTG TTTCAGGATT  
TTGCTACAAT ATACAAAAA CAATCTGTGA GACAGTGGCT GGGCTTTTTT CTGCCTGAT TAGTTCAGTG CACATACAAC  
TTGGACCAGA GGATCTGGGT TTGAATCCCA TCTCTGATAC TTCCAAACT GAGCTGTTTT CCTTATTGTG AAAGACTAAG  
ATCGCGTATG TCAAGAGCT CTGTAAACTC TCAACACATA CAAAGTACTA CTGCTG

SEQ ID NO:2305: (Length of Sequence = 354 Nucleotides)

CTGCCAGCC TGCTCTGGC CCCCTGGAAG CCTCCCCACA GCTGGTAATC TGGACTTAAG GATTGCTGGG CCACCGCCTC  
TCTGCCATACC ACCATTCCAT ATTTAAGTGG AGCCCCATCG TAGAAAGGCC CCGGGGCTTT ATTTTAGTCT CCTTTTCAGG  
GATGTGTGG GCGGGGGAGG GGGTTCTTGG TGCTACAGCC CTCTCCCCAC CCCTAAAGGG ACGCGAGCG TGTTTGCTGC  
CTTACCACA TATTAGTGTG TGACCTGGC AGGGGACCCC ATGGAAAAGA TGGGAAGAG CAAAATACAT GGAGACGACG  
CACCCTCAG GGATGCTCGC TTGGGATTCC CACG

SEQ ID NO:2306: (Length of Sequence = 345 Nucleotides)

CCAAGATCCT AAGTAATTCC AAATGCCTTA GATATCAATG AAAGCTACAC ACCATTGAGA TGGGCAAAAT TCTTTCTCTA  
CAAAGGGAGT AATCAAGTAA ATACCTGTCC TCTTTCAATG GACTGTGTC TATTGAGCAT TGTGGATGAT GTGTTTTCAG  
ATTTCCAGGT GAAGTTCTGA CCTTACCTGT TTGGCCAAAG ACGTAAATG AGAGGAAAGG CCTTGGTCTT CCTGATCAAC  
CAGCATTTAA CGAACAGTGG CTTAATGCAG ATCACTCAAG AGGAGCATA GCAATGTAAA AGGAATATAA GTAGGTGTG  
GATGCTTTT TCCTAGACCA GGAAT

SEQ ID NO:2307: (Length of Sequence = 337 Nucleotides)

AACAGAATGT AAAAATACGC AAGTCAAAC CTGGTAGAAC TGCAATGAGA AACAAATGGA TTCAATATTA TNAGTCGGGA  
AATTCAACGC CCTCCTATCG AAAATGGACA GATCCAGCAG GCAGAAAAT AGTAAGGACA TTGTGAGCT CTGCAATACC  
ATCAATCAAC TGGATATAAT GGACATCTAT AGACTACTTC AACACAGCA GAAGATACAT TCTTCTCAAG CTCACATGGA  
ACATTCAAA AGATAGACCA CACGAGGCC CATAAASCAC ACCTTAACAA ATTTAAATA ATATAATCA TACAGTGTG  
TCTCAAACCC NCAGTGG

SEQ ID NO:2308: (Length of Sequence = 216 Nucleotides)

GAGGAGTAAA CTNTTTCTG AGAAGCATGC TTAGGTGTG GGACAGGAAG TGGTAAAGGC AATGCATCGT CCACAGAGGT  
GGATGAAGCA GTACAAAGG AATGATAATT TNANCIGCTG GTGGCATCTN CACTGCTGGA GTGTATGGCA GCAATCATCT  
TACTCTCCAT CATCTGGTG GGGGCGAGTN GTGCAGGAAA GCCACAGGGA TTCGCA

SEQ ID NO:2309: (Length of Sequence = 289 Nucleotides)

GGGGCTATGA AAATACAAA AACATTAGCA CATTATAGT ATGTATGTGT CTACAGGCAT TINCCAGCC CTATGAGAGT  
NCTGCAATTT GAGAAGTAC AAAATGTATT GTTTGGTGAC AAGAACTGCA ATAAAAAGAT AAATGATTIN CTGAATTTG  
TGGCAAGCA CTCTATTTCC ACTGCAATTT CTGCTACTT TACCTTAAA ATGCTGAGA CAAAGALP CTTCTGCT  
ATNCIGCTGA GATCTAATGC AAAGTCTCT CAGANGCTTC ACTACACAT

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SEQ ID NO:2310: (Length of Sequence = 359 Nucleotides)

CTGNGGGCTG CCTCTCGTTG GTCAAATCCA ACCAAAGCT AAGAGCTGGA GAGCTTGGGT GGTGCATCCA AGGAGGCTTG  
CITCCTGGGG CACAGAAGGG AGAGTGGAGA AGGATGGAAA GTGGCTCTAG GGGAGGAAAT GGAGAACATC CAGAACTTTA  
TGTCACCTCT GGTGCTTGAA GGCCCTTCTC CAGGGAGACA AAAAGTTTGT NTTGGCTAAA GCTCCCTGGT TGCTCAGGAG  
CCAAGGGTCA CATAATGTGC CAATGGGGGT TTTGCTCTCT GAAAGCTCT GAGGTATAAT TACTTGCAAT GNAACATCC  
CTTTCTCTC TCTTCTCTG CCCACCTCC ATGCCAAGG

SEQ ID NO:2311: (Length of Sequence = 324 Nucleotides)

GTINGGGGCC GGCCTGGGCA ACATAGACAC CATCTCTTAA AACAAACAAA CATCATTAGT TTCTACATTC TACAAGGTGA  
AAGACTAATT AGAAGTGAAA AATACCACTG AAATGTTGGT GTACAAATGG CAGCATAATT TGATTTACAC TAGATTTTAC  
ACATTGTGT CTATTTCAAA TAGGTACTTT TACATTTTCC TTAAGTCAT CTGACACAGA GTGAATCACA GATATATGTT  
GGTGTGGAAG GCAGAGGTTA CTATTATTA NCGAAATTT TTGTGGTTTT GCAGTCATCA TATCTAATGT GGTACAGAT  
TGTTG

SEQ ID NO:2312: (Length of Sequence = 362 Nucleotides)

GNAGTTTATA AAGCTTTATT AAACATTCA AACAGCTGTG CAACGAACAC ACCAAATAAA AGCTCTAGAA TAGCAGTCCA  
GACGTTTCAC AAGTATGGCC TCACAGTCCC ATTCCCTAGA TGGACTGCCT CCAGTNCCTGT NCTCTGCTGT GCCCATCTCT  
CTTTCCCTC AGGCAAGAGA GAGATGGATG GTCAGACTG AAAGGACAGG CATGCTGATC TCCAGCAGGC AGGGGCCAGG  
AGAAAGTCTC GTTTGCCAAC ACTTGTTACT GAAGCGCAGA AAAAGCAGCA AGTGACAGTC ACAAAGTCTT CCTGGGGTAT  
TCTTCATAAC GTACAGTCTA TATGCGCAGG AACGAGGAAG CT

SEQ ID NO:2313: (Length of Sequence = 449 Nucleotides)

TGTAATTTTT AAATTAAGAC TGCCTTAGTG AGAAAATTC AGCAGGTGAG TTAAGGGCAC GAGGAAAGGG CCTTTGTGCA  
GAAGTAATGA CATAGGCAAA TTGTCAAAGG AGAGGTTCCC TGGTGTATTT NTAGAAGAAA GTAGACCCAT GINTCTGAAC  
CCAGCACACA GTTCACCTAT GGTGGTTTGT AAATCTGCCC TGGAAATTC ATGCATCTTT TAAATTTTTT GTTTATTTTT  
NCAAGAAATA AATGAAGTCT TTATTTTINC AATGAGGGCA ATGTTTATTA AGAACAGCAC ATAAGGTAGA AAAGAAGGTT  
GGTTTCTAAT CTGTTTCAT CTCCCCACT GATCTTGAGT TTTAAAGCA TAGAGAGCAC GATCCTTCTG TGGGGTCTCC  
ACTGTCAGAG AGCCTGTNCA GATGAGCAGT CACACTGTTA CTCCACAGC

SEQ ID NO:2314: (Length of Sequence = 316 Nucleotides)

CGAGGCAAAAC ACAAAGGGCT CCTTCTGCTT CTCTGACCCC ACCTGCAGCA GGTAGTGGAT AACAGCCCCT ATGGCCTCCT  
TCATGAGCT CACGAGCTGC ACCTTCTGTG GCTCCTTAAG CAGTACTGTC TCACAGCGAG TGCAITCCTG GNTCCCAAG  
TCCATGAGGG CATAGCAGGC GGTCAACACA TCCTCTTTCA CCTCGTGCC CGTNTCCTCC AGTGCCAGCC GCACTTCCAC  
GNACGNCAGA TTCACCAGCA GGGCCAGGAA CTGCTCCCG GAGCTGCCC CCGGGATCCA GTCCGAGCCG CAGGTG

SEQ ID NO:2315: (Length of Sequence = 286 Nucleotides)

ATTTTATGT GTAGACAGGC TGTGGGTTC CCTCACTTAA ATTGAAGCTC TGTGAACTT GAGACACTTA AGANTCTTGC  
AAGINTGAAA AGTGGAGTGA AACAAAACCA TTCTAAAC GAAATGTGT AACTNCNTC AGTTTACAC AGTGNAGAAA  
TAAGTATTA ACAAGTAGT CTCAAACGGT TATATCTTAA GGTCATTTTA TTCTGTAT CATTAACTAG ACATATCTTG  
GTTTAGAGAG CAGCACACAA GACATTGTGT ACTNTTAAT AGCTAA

SEQ ID NO:2316: (Length of Sequence = 414 Nucleotides)

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AATCATAGCT TACTGTGGCC TOGATGTCCT GAGCTCAGGC GATCCTCTCC TTATAGCCTC CAGAGTAGCT GGGACTATAG  
 GTGCGTGCCA CCACACCCTG CTAATTINAT GTTTTGAAGA GACCGGGTCT CACTTTGTG CCCAGGCTGG TGTCAGACTC  
 CTGGGCTCAA GCTAAATCAC CCACCTTGGC TTCCCAAAGT GTCCGGATT A CAGGTGTGAG CCACCTGCGC CAGCTCTGAT  
 TTTTGTATTT CTTACTTAAG GOGACATACT TAGTAGCTGT GGGTCTTGGG GCAGATACCT CCCAAAGCCC CAGTTCTGTC  
 ATCTATAAAT AATGTAACAA CAGGGCCCCG CTCGCAGGCT TGCTGTGTGC ACATATGTGT GTGTACGTAC CCATGTGCCT  
 NTACGAGAAG GGCT

SEQ ID NO:2317: (Length of Sequence = 166 Nucleotides)

GCAGTACTA TTATTAACAT TACAGTACCA AGCATCCGCA AGAGACAGTC ATTGTINATT TTNATCAAG AAATAGGGCT  
 GTTTTACT GTTATTGACA TCAACTTTTT CCCAGTGCAT TTTTCAAAA TATTAATAAG TTCATTCTT TGTGCTTTTA  
 ACTTCC

SEQ ID NO:2318: (Length of Sequence = 374 Nucleotides)

TTTATTTTAC ACTTACAAA GAAATCGCCC ACCCTTTG CCAATCCCC CAAAACAGTC TCTTTTACA AACATTAA  
 AATTAAACC AATGAAGAT AGACAAGTTA ATTCAGTAC AATTATTTIN CAGTGTAGCT GTCAATAATTA GAGTTTAAAT  
 TTCTACAAG TGACCAATGT CCAAGTACT TATAGGGAAA TCCTGATTAT CGGCCAAAGG AAATCAATA TTACAAGTTA  
 GCAAATCTT AGTACAAAA TAGTCCGTGT GTTGGAACTG CTTTTCCTTG TTACATAGGT CTTAGGTCAG TCTGCTGTA  
 ATACCTTAAC GNTTCGGAT TCTNNICTCA CAAATG : AATGCTACT GCTG

SEQ ID NO:2319: (Length of Sequence = 80 Nucleotides)

CATCTTAGTT CATGGTAATC TCCTTGGCAG CACTTATTGT CTTGTGTGA GAGCAAATGA TAGAGTCATC CATTCAAGTT  
 AATTAAGAGC ATCTGCATTG CAAACTGGT CACTAAATTG CTCGCCAAT TTGAGGCTTT TTTCTGCCA ACACAAATTA  
 ATTTTTTAAG TAGCAGCAAT TTCAGGAGAG ACCAAATAAA GAAAGCAACA ATAAAGTTGC CTGTCTAGTG AGATGTCCCC  
 AAACTATCAA CTTTAAACAT ACCTTGCTT TINATAGTAG TTCTTCACAC AAACGTCCCT AATCAAATG CGTGTCTCTT  
 GCTCTGTCAT TTTATGTTTT GGCTCTTAG CAACCTAATT GTATGGTTAG ACAGATTCCT

SEQ ID NO:2320: (Length of Sequence = 348 Nucleotides)

GGAGTTCTCT TGTCACGGA GAGCAGTGT GCAGTGTATG GAATGCTAAA TCTTACCCCA AAGGGCAAGC AGGCTCCAGG  
 TGGCCATGAG CTGAGTTGTG ACTTCTGGGA ACTAATTGGG TTGGCCCCTG CTGGAGGAGC TGACAACCTG ATCAATGAGG  
 AGTCTGACGT TGATGTCCAG CTCAACAACA GACACATGAT GATCCNAGGA GAAACATGT CCAAAATCCT AAAAGCACGA  
 TCCATGGTCA CCAGGTGCTT TAGAGATCAC TTCTTNATA GGGGGTACT ATGAAGTTAC TTCTCCAAC ATTAGTGCAA  
 ACACAAAGTA NGAAGGTGGT GCCACACT

SEQ ID NO:2321: (Length of Sequence = 330 Nucleotides)

ATCTAGACTT TNAGTTCCCT GCATCTGCCA CCGTAGTTTC TAGCAGGAGT AGTGGGGGGA GTAATACAGA TTCTNCCCTA  
 GAAGGGGACA CTGGTAACAT GTCCACTCT TGGATTAGCA GGGGTGGGTC CAGGAAGATG ATATTINCNT CTTTGTCCCA  
 CCCCCCTGGC AATCAGCTGG ACCCACTAG GCCATCATGA GTGGCTTCTC CCTGTATCC CCAGGGGTCA TAGGATATCT  
 ACACCGCCTT TNGACCCCA CCTGCACTC CCATCCTTTC CTCTCTCCC GGTTCATGCC CTGCACTACA TAGCACAGCC  
 GGGATGCTTN

SEQ ID NO:2322: (Length of Sequence = 352 Nucleotides)

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TTGACAAGTA AGTGTATATA TTAAAGGTGT ACAATGTGAT GCTTTGATAC ATACAGTGTG AAATGATTAC CACAGTTAGG  
 TTAAATAATT AACATATCCA TCATCTCACA TAGGTATGAT TTCITTATGIG TGTGGCGAGA ATCCTGAAAA TCAACTCTGA  
 GCACATTCA AGTGTACAAT ACASTATTTA TGATAGTCAC CATGCTGTTA ATCAGATTGC CTACCTTGGT TAAAGTGCAG  
 ACTCAGGTGA AGGTCTGGAT GGAGGATCAT ACTTTAATTG ATTTAGACTC TAAATAAAT GTATATAGTT ATTTTTGCTA  
 ACCTAANGAA CCTACTCATA AATGGGCTAG TG

SEQ ID NO:2323: (Length of Sequence = 316 Nucleotides)

GAGACAGAGT CTCTCTCTGT CGCCCGGGCT GGAGTGCAGT GGCACAACCTC AGCTCACTGC AACCTCCGCC TCCCAGATGT  
 CCAAGTGATC AAGGGGTTTC ATTTGCTCTT GGGGGAATTG GTATCAATTTG GGGAGGAAGC ATGTGTTCTG TGAGGTTGTT  
 CGGCTATGTC CAAGTGTCTT TACTAATAG TGGAGACGGG GTTTCACCAT GTTGGCCAGG CAGGACCTCA GGTGATCTGC  
 CCACCTCAGC CTCCCGAAGT GCTGGGATTA CAGGCATGAG TCACCACACC CGGCTTCATT TATTTTCTTA TCCATG

SEQ ID NO:2324: (Length of Sequence = 300 Nucleotides)

GGGGACAGGA GGTGACCTCG CGAGCAGACG CGCGCNCCAN ACAAGCAAGC CCGCCCCGGC CTCTCGGGAG CCGTGGGGCA  
 GAGGCTGCGG ANCCAGGAG GCGCGGAGCC CTCATGANIT CANINACCTG CTCTCCCCC TTAGGTCTA TCAGCCACAG  
 TNTCTGAAG TTTCCAAGAG CAGCAGAAAA TGAACACATT NCAGGGGCCA GTTTCATTCA AAGATGTGGC TGTGGATTTC  
 ACCCAGNGG AGTGGCAGCA ACTGGACCTT GATGAGAAGA TAGCATACGG GGATGTGATG

SEQ ID NO:2325: (Length of Sequence = 303 Nucleotides)

CTGTCTCAAA TAATAATGAT AATATTINCT TATGCTTACT TTAGTGTAAG ATTACAGTAT ACATTACAAC ATATGCGTTT  
 ATTGACTGTT TATGTTATTG ATAAGGCTTC TAGTCAACAG TAGGTTACTA GTAATTAAGT TTTTGAGGAG TCAAAAGTTA  
 TGTGTGATT TTCAACTGTG GACTTTGGTG CCTCTAACCC TGTGTTGTTT AGGGGTCAAC TGTGTATTCT TTCTGTGGNA  
 ACATTTTATG ATGTTATAGC CTTTAGACAT TAGAAATGGA AATTTAGTTG AACTCGNGTG TTC

SEQ ID NO:2326: (Length of Sequence = 348 Nucleotides)

GTGTGCTCTG TGTGGCAGAT GACACAATCT CTCCCGTCCC TGGAGGCCAG CTCCCCCGTG GCCAACCTCA GGCTCCCAT  
 GGCATCTCAG GGCTCTCCA GCCAGACTGG CGCCATCCAA TTAACCTGAT GGTGGCTGAG CAGCTCAGCT CTGTGCCAGC  
 CCTGTCAGGA GGCAGATCAT GTGTCCAGG CCCAGAGGT AGCCGTCTC ACGGTTGCCN TCAGCCAGG GCAGCTGTG  
 GCTGAGCGTC TGTGGTGG GCAAGGCCAC CGTCTTGCCG AAGTCTATCA TCCAGACCTT GGCCAGGCCG GTGTGCTGCT  
 GCACGAAGAG GAGGGAGCTT CCTACCAC

SEQ ID NO:2327: (Length of Sequence = 392 Nucleotides)

AGCTGTTTTT TCTAGCTGC CAAGACTGTT GAGGAAGATG AGAGAATTCC AGTACTAAAG GTATTGGCAA GAGACAGTTT  
 CTGTGGATGT TCTCATCTG AAATTTTGAG AATGGAGAGA ATTATTCTGG ATAAGTGAA TTGGGATCTT CACACAGCCA  
 CACCATGGA TTTTCTTCAT ATTTTCCATG CCATTGCAGT GTCAACTAGG CTCAGTTAC TTTTCAGTTT GCCCAAATTG  
 AGCCCATCTC AACATTGGC AGTCCTTACC ANGCAACTAC TTCATGTAT GGCCTGCAAC CAACTCTGC AATTGAGAG  
 ATCCATGCTT GCTCTGGCCA TGGTTAGTCT GGAAATGGAG GAAACTCATT CCTGATTGGC TTTCTCTTAC AA

SEQ ID NO:2328: (Length of Sequence = 256 Nucleotides)

ACGAGCACAC TCTTCACAGT GGGCGGAAC ATCAGAAAAT GGGAGCTTC TTCTAATGGC TGTNCTTTT TGTGGGAAA  
 AAAAAAACC AAATCTCCA AACCACCCG GATGGTTGTA AAAAGCTGCA ACGGAACCTT TGGCACNGA TGAGAAGAGA

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GGCCTTTTAA TGCCATAGCT AGTGATGATT CANTCAAAGC ATCAGTCTAA GGAAGGATGA TGGGGGAAGG GACCNNAGAT  
CACAGNCCTT CTCCTT

SEQ ID NO:2329: (Length of Sequence = 383 Nucleotides)

AGTAGAGACA GCATTTCAIT ATGTTGGCCA GGCTGGTCTC GAACTCCTCA CCTCAAGTGA TCTGCCTGCC TGGGCTCCC  
AAAGTGGGG GATTACAGGC GTGAGCACNC ATGCCTGGCC TTTTTTTTTT TTTTTTTTAA CGAAGTTATT TTCTAGAGC  
ATTCATAGTT TGTTTTATA CAGTTAAGGT TCTCATCCAT CTGGATTMTT TGGTAAGTGT GGGGAGAATA AAATGAGGAG  
CCNCIGTTTT TTTCTCCAAA TGGCATGTAT TGTCCCAACA CAATTTATTG AATCAATAAT TCATCTCTCC CATACGAATT  
TAACTATTG AACTTTCACA TCAAAATTTT GGAACCTACA AGTAGGTTTA ACAAGGTGAG AAC

SEQ ID NO:2330: (Length of Sequence = 392 Nucleotides)

CGAAACGNIC TCAACCTATT CTCAAACCTT AAATGGGTAA GAAGCCCACT GGTCAAGCATG GCAAAGCCCC AGCTCTAATA  
AAAAATGCAA AAAATTGGCT GGGAGTGGAG GCGGGCGCCT GTAATCCAG CTACTTGGAA GGTGAGCTG GGAGAGTGC  
TTGAGTCTGG GAGGCAGAGG TTGCAGTGAG CCGAGATCAC ACCACTGCAC TCCACCTTGA GCAACAGACT GAGACTCTGT  
CTCAAAAAA AAAAAAANT TATGCAAAGT GTCTTTTCCA ACAAAGTGT AATGAAGCTA GAAGTCAATA ACAGGAAAC  
CTGGNGAAT TTGCAAGTAA GTGAAAGTTA AACAACATTC TTAACCAGTG GCTCAAAGGA GGAAATGACT GG

SEQ ID NO:2331: (Length of Sequence = 284 Nucleotides)

AAGAAAAGTA AATTCATCTT GCTCAGATC CTTCTGGAA GAGTTTAGAA AGCAAAGAAT TCACCGACTC AGCAGGAAGC  
AGAACGAGCT GTTCTTCTT TTGACAGCA CAAGCTAATC CCCTAGAGAG TGGGGATGTG GGAAACGGAG GGTAAATTAAT  
TCTTTGGTCA CTGGTCACT GCTGAATAGC CTGGTCACT TTTGGCTCTC TCCTATTTTA GGGGGAAAAA TATTTTNGTT  
TCTTTTTTTT AAAAAATAAA ATGTTGCGAC AATGGGAGAA AATT

SEQ ID NO:2332: (Length of Sequence = 349 Nucleotides)

ATCTTAAAAA GATTTTTTGT ATTTCCTTTT GAGACTGGGT CTCAGTCTGT TGCCAGGCT GGAGTGTAGC AGCCTGATCA  
TGGCTCAGTG CAGCCTCTAC CTCCCGGGC TCAGGTGATC CTCCCTCTC AGCCTCTGA GTAGCTGGGA CTACAGAGGT  
GTGSCACCAT GCCCGCTAA TTTTGTATT TTTTGTGGAG ATGGGGTTTT GCGATGTG CAGGCTAGT CTGAACTCC  
TGGATGTGAG CCACTGCGTC TGGCCTATTA TTTTAAATAT AGTTCTCTTT ACTGCCAGTA GCTTTCATAT AACCTTAGCG  
ACTAGATTTA GTCACCACTG CTTAATTC

SEQ ID NO:2333: (Length of Sequence = 353 Nucleotides)

CCACCTCTCC GTTCTCTGCT TCINAACCAC AGCCGCATCC TATTTCAGC CCTCAAGATT AAGGATGAAA ATTTGACTTT  
TTAATTTTAT TATTCITGTT CTTCCTTCCT ACTTCATTAG AATCATGTTA TTGGCTTAA ATACTGTATG TAAAGGATGC  
TCTGGGGCC ATCTGGAAGC CTGCATTCTC TGGGATATA ATTACGCTAA GCAATTTTTC ACCAGGGACA GCATGACTTA  
GCTTCTACCT GGGCATCTC TGGCAACACA GCCCTCAGT CTTCCAAAGG GATTGGCTGC TGTCCCTTCA GGCCTCTTC  
TTNGTGTGT GTGTGTGT GTGTGTGT TTC

SEQ ID NO:2334: (Length of Sequence = 279 Nucleotides)

GCGCCTCTCA CAGCTGCTG CTGCGCNCCT CATNCTGGTG GCGATGCTGC AGCTGCTCTA CCTGTGCTG CTGTCCGGAC  
TCAAGGGCA GGAGGAGCAA GACCAATATT TTAATTCCT TCCCGCTCC CACCGTCCG TGGACTAGAT CAAGCGCGG  
TCCGNACCGC GCTGGCCTCT GGAGGCTCC TNGAGCTAG CGGCGATTAC CGCTCTACA GGGGCTGCT GAAGACCACC  
ATNGACCCA ACNATGTGAT CCTGGCCACG NACGCCAG



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SEQ ID NO:2335: (Length of Sequence = 386 Nucleotides)

GCCTTTTGT CATGGTAGCA AAGTGGCTGC TGTGGCTCCA GGCATCACAC CCTCAATCAA GGTAGGAAGA AGAGGCCAG  
GGAGGTGTTA GCCATGCCTG TTTCTTTTAT TGGAAAAGCT TTCCAGAGG CCCAGGTAGA CTTCCTCTTC AATTTTCATTG  
GCCACACCTG ATCACAATAGC CATCCTAAGC TGCAAAGGAG ACTGGAACAG TGAAAATCTG GATTTACAGC CTCCACAGTT  
GGAGTGGCTG GAGATACAGA GTTGGGACGA CCCCTGAAAA GTGAACCAAG GTCGTCGCA CGGCTGCCCT GGAGGGCGTG  
GTGCTTGAGG TCCCTTCTAC CTCTGGGCT TCATGGAATG ACTTGTTGCC TCCATGGAGC ACCTCT

SEQ ID NO:2336: (Length of Sequence = 258 Nucleotides)

CCCTAGCAAA CCACTGATGA CCGCCTGGNA GGGGCCAGCC TGTCGGTGCT CTGGGCCTTG CAGCTNTTTC TTTAGGGTTA  
GCGGTGGTGC CGGGGTCACT TTCTGAATCT TTTTTTTTTT TTTTCAAAAA GGAAAGTTTT TAATGGAAAG TTGAGCCAGA  
ACTAAACCAG GGAGCTGTCT GAAATCATAG CACCCCATCC GGGTGGCGGG GAGATCAACT CCGAGCTGTT TTTCCGAGGC  
AGTGAGGAAC GGTGCCGG

SEQ ID NO:2337: (Length of Sequence = 338 Nucleotides)

ATCTCTTTTC CCACTTCATA AAAGCAAAAT ATGTAAGACT AGCATCTGGT TTTGTCCCA ATAAAAAAT CCCACAACCT  
TCAAGATATC ACTCTAGCTT TCTAAAGTAG AAAGGCAATT CAGGCAACAA AAAATATTTT TTAATAATCT ATAGCCCAAA  
TCACCAAAAG GTAAGGAAAG AACTTTCTTA GCAAGCTCTG GAGAAGACCT AATTGTGACA TCAAAATGGA GCTTTTCAGAC  
ACTAATCAAG GCCATTAAAT AAAAAAATTT TTTCAGGAAA ATAAGGCAGG TTGGATCTCT TTTCCACTT CATAAAAGCA  
AAATATGTGG CAGACTCT

SEQ ID NO:2338: (Length of Sequence = 410 Nucleotides)

GGGCTCTGCT ATGCTGCTTA GGCTGGTCTT GAACCTCTCA ACTGCAGTCT TGACCTCCCA GGCTCAAGTG ATCTTCTTAC  
ATAGGCCCTC CAATGTGCCA GGATTATAGG CATGACCACC ATGCCAAGCT CCAGATGGTA TTCTTAATTC AGCTCACAAAT  
GTGCCCTCAT CAGATTGCTA GTGGCCAGGA GTGAACAACCT GAGTGACTTT AAGAATCAGG ACACCAGGAA TATGTTCTTA  
GAAAGTGAAG GTATGAGTGG AAAACCTGGG TTGATTATG AACAAAGGCC ACATGTGTGC CAGAGTGGCC AGGGCAGGGA  
GCAGCAGCAG GTGCTGGTGA AAGGAAGGTG GATTACTGGG GGCAATGCCT GTCTTTGTTG TATGGGTTC TTTTGAGGGA  
AGTAGATAAG

SEQ ID NO:2339: (Length of Sequence = 336 Nucleotides)

AGGGGAGGAG GGGGCTAAGG GCGCTGGAG GAAGAGCGAA ANAGATGGAA GCCTTCCGGC AGAAGGCAGA GCTGGGGCGT  
TTNTGAGAC ATCAGTATAA CGCTCAACTC AGCAGACGCA CACAGCAGAT CCAAGAGGAG CTGGAGGCAG ACAGGCGGNT  
CCTGCAGGCC CTCCTGAGA AGGAGGACGA GAGCCAGCGC CTCCACCTGG CCAGGCGGGA GCAGGTCATG GCCGATNTGG  
CCTGGNTGAA GCAGGCCATT NAGGNCAGC TTCAGCTGGA GCGGGCGCGG GAGGCAGAGC TGCAGATGCT TCTTGAGGGA  
GGAGGGCCAA GGAGAT

SEQ ID NO:2340: (Length of Sequence = 290 Nucleotides)

TTTTAGTAGA GATGGGGGTT TCTCCTTGTT GGTCAAGCTG GTCTGAACT CCCGACCTCA GGTGATCCAC CTGCTCGGC  
CTCCCAAAGT GTTGGGATTA CAGGCGTGAG CACNCGCNC CGGCTTCAG TTTCTTCTTA GGCGTTCTG TCACCAAAAT  
AGCTGCTACC CAGAGNCGG GGGTGAACCT AGGCTGAATA TCCACTTGT TTTTATGGAT GGCTNCTTC CCCCATTG  
CTTNNCCAGA ATATCCTTTC AAGTNCANT TTCCAGGGG AGCTCTGGG

SEQ ID NO:2341: (Length of Sequence = 298 Nucleotides)

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TTTGTCTTAT TACCCGATTT ATTAGAGAGA TCTCTAAAAA GACGGGGTGT GGCGGGGGTA GGTGGGCGAG GAACCTGGGA  
 TGCAAACCAG TGTGTGGGCG CAGGAGTGGC TGTATGGTTT CANAGGCGCC CACCACTCTG GGTGTGAGGG ACACAGCACC  
 CTGCTCTCGG CGCTTTGGAT TINTACGCAC CAGACCACGG GGCGGAGGAA TGGAGTGGCA TCCTTGGGGG GAGTTAAGAC  
 ACACGAGGTT TGCAGTTTCA TTTTGTTC AATCAGTTT GGCCATAAAA ATGGGACT

SEQ ID NO:2342: (Length of Sequence = 316 Nucleotides)

CCTGAACAAG GTCGTGGTGG TGTGGAATTC TCCCAAGCTG CCATCAGAGG ACCTTCTGTG GCCTGACATT GGCGTCCCCA  
 TCATGGTGGT CCGTACTGAG AAGAACAGTT TNAACAACCG ATTCTTACCC TGGAAATGAAA TTGAGACAGA GGCCATCCTG  
 TCCATTGATG ACGATGCTCA CCTCCGCCAT GACGAAATCA TGTTTGGGTT CCGGGTGTGG AGAGAAGCTC GGGACCNCAT  
 CGTGGGCTTC CCTGGNCGTT ACCACGCATG GGACATCCCC CATCAGTCCT GGNCTACAA CTCCAACACTAC TCCTGT

SEQ ID NO:2343: (Length of Sequence = 380 Nucleotides)

GGAGAGGAG GAAGGTTGGA CCTTCATCAG ACCACTCCCT TCCCCATCC TCAGGAGAG GGGCAAGGG CAACCCACCA  
 TCTACCCACT TACTAACCTG GTCTAACCC CCTTACTGTG CGCGTGTGTG TGCGTGTGCG CACGCTCTGG CTGTTTGTCT  
 ATATGTCTAG CTCATCTAGT TCTCTTCTT AAGGGGATGG GGGTCAGGGG CTAGGGGAGG GGGCTGAGTT TCCCCACTTT  
 AGGAGGAGGT GGGGGCTATT TCTATGCAA TAGAAATCAG CACATTCCCT CTACTTCCCT TTCTTCCACT CCCCCCATAT  
 CTTTAAAGTG TGAAGCAGA AAAGGACCTG CATTTTCTCT ACAATTGAGG AGCTGACATA

SEQ ID NO:2344: (Length of Sequence = 282 Nucleotides)

GGGAATATAT TTATGCAAT TTTATTGAAA TTTATTGTAA ATAAAGNTTT TNCAGTGGN CTAGAAAANC AGCTTGAATG  
 NCATTACGA TTTATTGAAG AAGGATGACA TCCCTNCCAC TTTATTGCACA AACTTGGTAG CTTTGAGACA AATACAGTAG  
 CACAGTCCGT TTGAAGATT GTCCAAAAA TTAGTCCATA TTTTAGTGGC TCAGTGTCAA GNGTCCCTC CCTGTGCCCC  
 CACTGTGCT TCTGCAGTGA TACGAAGGAT GAATGCTTAA TT

SEQ ID NO:2345: (Length of Sequence = 256 Nucleotides)

CTTTATAGGA AGCTGCAAAA GAAATGAGCA GAGCGNGATA TTTGTGGTAA GGGATACAAA GAACATACAA TTGTGTACTT  
 GAGAGGTTTC ATGGAACATT ATGACCCATC CAATGNAGAC ATCAACATTA ACAACAAAA TTANTTGAGG AAGAGCAGTA  
 TGAAAATATT CTAATGCAGT GCTGTCCAAC AGAACTTTCT GTGGTGATGG AAATGTTCCA TATCTTTGTG CTAATACAGA  
 ATCTACCAGC CACATG

SEQ ID NO:2346: (Length of Sequence = 437 Nucleotides)

GTGGAGATG ATGCTTCINT TTTTGTGTC CGCTGCTGCC CTCGCGCTGG GAGCGAGCC GGAGGGAAGG CGGTGGAGAG  
 ATGATTGCAG AGTTGGTGAG CAGCGCTCTG GGGCTCGCT TGTATCTCAA CACCTGAGT GCGGATTCTT GCTATGATGA  
 CAGCGTGCT ATCAAGACTA ATCAGGACCT TCTCCAGAA ACTCCATGGA CGCACATTT CTACAATNAT TTTTGGGGGA  
 CTCTCTAAC CCACAGTGGC AGCCACAAGT CCTACCGGCC ACTCTGCACT CTCTCTTTTC GCGTGAACCA TGCCATTGGA  
 GGGTGAATC CCTGGGAGCT ACCATCTTGT CAATGTCTG TTGCAATGCA GCAGTCACTG GTCTCTTCAC AAAGCTTCTN  
 CAAGATCCTC CTTTGGTGAT TGGATCTGG ACATTC

SEQ ID NO:2347: (Length of Sequence = 406 Nucleotides)

CCCCCCCCC CTTTCCGCC GGGGAGAGC CCCCAGCTC AAATCAGCT TTTTGGGAC AACCTCAGT TTTGAGCCA  
 GTGGGACCAG CATGTTTGGC AGTGCAACTA CAGACAATCA CAATCCCATG AAGGATATG AAGTAACATC ATCTCCTGAT  
 GATAGCATTG GTGTCTGTG TTTTAGCCA CCAACCTTGC CGGGAACTT TCTTATTGCA GGATCATGGG CTAATGATGT

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TCGCTGCTGG GAAGTTCAAG ACAGTGGACA GACCATTTCCA AAAGCCCAGC AGATGCACAC TGGGCCTGTG CTTGATGTCT  
GCTGGAGTTA CGATGGGAGC AAAGTGTITA CGGCATCGTG TGATAAACT GCCAAAATGT GGGGACCTCA GCAGTAACCA  
AGCGAT

SEQ ID NO:2348: (Length of Sequence = 363 Nucleotides)

GGCCTTTCAA GNAGCGGCGG ANITCGCGA CGCTGTAAAG GAGGTACAGC AGATCCCGA CCAGCACCCC AGCAAAATCC  
CGGTGATCAT CGAGCGCTAC AAGGGTGAGA AGCAGCTGCC CGTCCTGGAC AAGACCAAGT TTTTGGTCCC GGACCATGTC  
AACATGAGCN AGTTGGTCAA GATCATCCGG CGCCGTCTGC AGCTGAACCC CACGCAGGCC TTCTTCTGC TGGTGAACCA  
GCACAGCATG GTGAGTINT CACGCCCAT CGCGACATC TACGAGCAGG AGAAAGACGA GGACGGCTTC CTCTATATGG  
TCTACGGCTC CCAGGAAACC TTCGGCTTTC TGAGNCAGCA GTA

SEQ ID NO:2349: (Length of Sequence = 332 Nucleotides)

TCCTCTACT GATGTCITTC AGTAGATTCA GAAGTGATTG TGGCAAACAT AGTATCTTGA AGGAAGAGAT CGTGTITTGA  
TTAGCATCTC CCGAGCCTAG TTTTGTGTTT ATGTTCTAGG TATTGAGGAA ATAAAGATCA ATTTGGACTT CTTCACCTG  
TTAATACATC CTAGTCTCTG ACTGCAGCAA AATGACTCTC AGTGCCCTT TCTCTCTTA GTGATGCTT AAGATGACAG  
CTTCATTCCC TTTTAATTAT TATCCACCTT CTTCCCATC TTCANTIGTT TTCTCAAGTG AGGGACTTGG CCTCTACTGG  
GACTCCACTG GG

SEQ ID NO:2350: (Length of Sequence = 339 Nucleotides)

GAGATGGAGT CTCACCCCTT CGCCAGGCT GGAGTGCAAT GGCACGATCT CAGCTCACTG CAACCTCTTC CTCACAGTT  
CAAGCAATTC TCCTGCTCA GCCTCCGAG TAGCTGAGAC TACAGCGTG TGCCACCATG ACCGGCCAAT TTTTGTACT  
TTTAGTAGAG ACAGGGTTC ACCATGTTGG CCAGGCTGCG CCCGAACCTC CGACCTCATG ATCCACCTGN CTCGGCCTCC  
CAAAGTGCG GGACCACAGG CATGAGNCAC CGCACCCAGA AAAAGCAAAT CTCTTAGTAT TTTTCTCTT GTCCAAAGG  
TTCTGACCAT GTTCATGAC

SEQ ID NO:2351: (Length of Sequence = 354 Nucleotides)

AGAAGGACCT GAGTTGTGGC CAACAACAGG CTGCAGAAAG GCAATGCCAT CCTGAAGATT TCTCACTAA GAGTCTGCAC  
CCATGACAGC CCACCGAGAC CCTCGCTCCA AGTTTGTGGA GAAAGGGAAC CCGCTTGGCA GCATGTGGAA AGACCCACG  
ATGAGCAGCA GACACAGCAA CGCTGCCTCC TACATCTCGA CAGCATCTGT GTAAGACTCG CTAGCATCTG GTGCACACAC  
TGTATGAGAC AGCAACAGCC AGAACAGACA GCTTTACGTT GATGAACACA CAGACGGTGG CGCATGTTCA GAGATGCCGA  
GGGACGCGC CAGTTCCAA AATCACCTCT GSCC

SEQ ID NO:2352: (Length of Sequence = 378 Nucleotides)

GTTGTGTGTT TAGTGAACA CTCAAATCAA AAACAGGCTC ACGGTCTGAA TAGTCTTCTG GTCTAAGCAA CTCAGACCA  
GCGCCGCCAA GGGGAGGCG CCTTGTCTT GGCCCGGGA AGAGACGAG CTCCAGCCCC GACGAGACC CCATGGCGCA  
CACAGGAGG CAGAGCTCGA GGTNCAGGCG GCTGCCTTGC GGAAGTGC TGGGGAGGG TCCCTINGCTG AGGCTGCACC  
AAGGGCTNGG GAGAGGCCCA GGAAGGGGAG AGCGAGCTGN GAGCTTGGGA TGGGAGCGT GAGGTGGGA TGGTTNGCA  
GAGGGGCAGA GCCAAGNCA GAGGCAAGTT CTNGGGCCCC ACAAGCTTAT GGTGGCA

SEQ ID NO:2353: (Length of Sequence = 369 Nucleotides)

CTGCCTTATA TAATGTGGAT GCTGGGCACA GAGCTGTCAT CTTTGACCGA TTCCGTGGAG TGCAGGACAT TGTTGTAGGG  
GAAGGAGCTC ATTTTCTCAT CCGTGGGTA CAGAAACCA TTATCTTTGA CTGCCGTCTC CGACCAGTA ATGTGCCAGT

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CATCAITGGT AGCAAAGATT TACAGAATGT CAACATCACA CTGCGCATCC TCTTCGGGCC TGTCGCCAGC CAGCTTCCTC  
GCATCTTCAC CAGCATCGGA GAGGACTATG ATGAGCGTGT GCTGCCGTCC ATCACAACCTG AGATCCTCAA GTCAGTGGTG  
GCTCGCTTTG ATNCTGGAGA ACTAATCACC CAGAGAGAGC TGGTCTTCA

SEQ ID NO:2354: (Length of Sequence = 363 Nucleotides)

GGAGAGGGAT TGGCATCGGC ACCATGGAGC TCCAGGGCT TAGAGATGGA GCAAAGTTGG CCTCACCTTG GGGAAACCATT  
CCTGCTCTG GATACTGGAA GACATTCTGC TGCATCTNAG GATTGATTC AGTGCCAAAC TGTCCTCTTA TGTTCCTGT  
CATGCCCTG CTCACCATGC TGTTCGGTT GGCCAAGGAT GCTTCAGGAT TTNCTGCTAG TTGTGAAAAC GGGCTGGTAG  
AAGCAGGTGG GGTTCCTGGG ATTTGTACCA TAGTTTNGTG GATAGGGGAA TTGCTGTGGA GCACCTGAG GAAGACGGGG  
GTINCCATT TNAACTGGTA GTCCAGATGA GGGAGGGAGG GTT

SEQ ID NO:2355: (Length of Sequence = 403 Nucleotides)

AACCAGGAAT GGAGGGCTC CTCATGTCG AGGTAGAGTA AGACGGTGT AGGGGGCGGA CCGGGGGCG GAGATGAGCA  
CCGGCCGCAC TGGGGCATCA TCNCGGCCA CCGGGGACGA TGGCCGTGG GAGGGCTCAG GCGGTGTGG TGGCCACT  
GCGAAGAATG GATTTTAAA ACACTTCATA GCCCGANIT TMTTCAGCT CCTCTTGT GGACACAAC TCAGGGCTCC  
CTGTCACTG GCTTTCGGG GTGGTCTCC CACTTGAGA GTCTGGTCT CACAGGACAC CGTCTTCCC TTCCCTTCCA  
AGGGGCAGN CCCACGNACC CTCGCCAAA AANTAAAGGA GCTTTGTGT TGAACAGCC AAGGCAAGCC GTCCAAGGA  
GCT

SEQ ID NO:2356: (Length of Sequence = 456 Nucleotides)

GAAAGAAAA CAATTGGTCA AACCACAAGA ACACTGTAC CTGAGCCTG AGAAGCCAAT TCAGATTCAA CCTGAATTT  
GGTTGATTG GATTAACTGA CGAAAAAGT CAATAGAACC ATTGANITTC AGAAATCATA AAGTTGCACT ATGCCAAGA  
AAAGAGTACA TGTGAATCAA GGTAGATAG AAAACATCAA GCCAAGAAAA CAACACANIT CACATAATTT TMTTGCCTC  
GACAAAACAT TTAAGCAGTT AATTTTGT TGTTTGT TGTTTGT TGAAGAACAN TTGTGGTCTT TTCAATTTTC  
TTGGTGGAG AGCAAATTC GATCAGCATT AGTCTGTGA AATACTTTG GNTTATCATC CCCCAGTNT AGGGTGAGAT  
CATGAGGAAA NTTTTGCGAG TCCTTCTCTC AGATTTTGT CACTNAAANT GCTTGG

SEQ ID NO:2357: (Length of Sequence = 412 Nucleotides)

CCACCCCATG CCCAACAAGC CATATTGTCA ATAAATAAGG AATAACTGAA ACCAGACCTT TTAGGAAGAG ACAGAAATTC  
CATTACCCAG GAAACCACTC AGTGAAGATG CTGATAGTTC TGATATGTC TTATGCCCTG CCCCCTTCCC CCAAAAAACC  
ACCTGCAGAA CCAAAATGTT CTCTCAAAG CCCATCAGCA CAGATTGATA ATAATATCAC TATCAAGCCA GGGCTAGTGC  
TTCTCTACAT ACTGTACTGT CACAGGTACA AAGCAAGCCC TGGACAGATA CTGTCTCCT GCCCCACAA ATCCAGGGAG  
GAAAAAGACC AGGGANGCTT TGATTTCTT GGGATTTAAA CCTCATGTC AAAAAGNTA ATAAAGGTGC TGTACTTGT  
ATCTTCTTC CT

SEQ ID NO:2358: (Length of Sequence = 399 Nucleotides)

AGATGGCAGC AGGTTCAGT GGGGCCCTT GGATGCCTAA GCCTGGGGAC GACTACAGCT ACAATCAGTT TTCCACATAT  
GGOGATGCCA ATGCCGCTGG TGCTTATTAT CAGGATTATT ACAGTGGTGG CTACTATCCT GCACAGGACC CGGCCCTGGT  
CCCCCCCCAG GAAATGCCC CAGATGCCCT CTCATCGAT GACGAAGCAT TTAAGCGGCT GCAGGGCAAG AGGAACCGAG  
GAGAGAGA AATCAACTTT GTGGAGATCA AAGTGATGA CCAGCTCAGT GGGGCCCTAC AATGATGAG TATCTCATTC  
ACAGAAGAGA AAACCATGAA GTCAATCAGC AAAAAGAAAG GTGAGCAGCC AACAGGCCAG CAGCGGCGGG AAACACAG

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SEQ ID NO:2359: (Length of Sequence = 352 Nucleotides)

CTTCATTAAAC AAGCTGCGAG AGAAGCTGGG TTGCCAGGAC GCCTTCCCCG AGGTGTACGA CAAGATCTGC AAGGCCGCCA  
 GGACTGAGCT GGAGCCCGCC TGGAGAGACA GACACGTGTG AGTGTTCAGG CATCTTCCCT TCACTCAAGC TTGGCTGCTT  
 TCCTAGATCC ACACTTTCAA AGAGAAACCC CTCCAGAACT CCCACCTGA CAGCCCAACA CCACCTTCCT CTTGGCTTCC  
 AGGGGGGCGAG CCCAGTGGAA TGGAAAGAAT GTGGGATTG GAGTCAGACA AGCCTGAGTC CAGTTNCCCG TTTAGAACTC  
 ATTAGCTGTG TGA CTCTGGG TGAGTCCCTT AA

SEQ ID NO:2360: (Length of Sequence = 359 Nucleotides)

TTTTTTTCAG CATAGTCATC TTAGCTTTAT TGAGTAAGGC ATCCCAATCT CTGCTAAGAT TCTNCTAAAT GAACGGCTGA  
 TTTTCTGCC AAACATATGCA TTGGTCAAAG AGAAATCACC ACCTGGCCAC CCCATTCTGT CCCCTACAG GACACTAAGG  
 GTTCTTACAG ATAAAGGGAC GATGCATTCA TGCTGGAGA ACTAATCACA CTTGATTTCT CTGGGATCTA AANTAATGTC  
 AAATTTTGAT TCACTTTATG TAAAGAAAAA TCCTTTTNTT TTINTGCAAA CCNCTTTCAA GANCAATGCT GCCCATCCCA  
 TGCAAGATGT TGTGTGAAG CCANCNTCTG GTATACTAA

SEQ ID NO:2361: (Length of Sequence = 437 Nucleotides)

CTCCAGGATT CCAATCCAGT CCGAACTCAA CACGAGGGGT GGCACCTACA GGCTGGGGTC AATCTGGAAG ACTGCCTGTT  
 GTATGGCCTG GCAACTAAAA AATGTTTTTT ACATTTTTAA ATGGTTAACA AAATTAAAAAT AAGAGAATAT TTCATGACAT  
 CATCAAATTA CACGAAATGC AAATTCAGC ATCTACAAAT ACAGTTTGAT TGGGACACAG CCACCTCAT CCGTTTGCAG  
 GCTATCCCTG GCTGCTTACA GGGTCCACAT AGTCATAAA GCCTGAGGAT ATTTACTATC TGGCCTTTTA CAGAAAAAGG  
 TCCCCAAACA CTAAATCTGA AATGTTTTCG ATCAGAACCC CTTGTGGGGC TTGTTAGGAA TGCAGCTCCC TGGTCCACA  
 NCCAGTCTCT GGATTCAGTA AGTCTGGAGC AGGGCCT

SEQ ID NO:2362: (Length of Sequence = 317 Nucleotides)

CTTCTCTGGA TGTGCTGGG CTGGGACTGG CTAGAATCTT TCTCTGGACT NTTGCATGTA CAGTGNTCC ATCCTGGAGG  
 CAAGAGAGTT GGGAGTGGCT CGAATCANAG CCGTGCCCAA GATATCCCTN CTGTGCAATC GTTTGAAGCT GACGTCCTGT  
 GTCNTIACAC TGCTGCCACT GTTGTNTCTT GNTCTGCTT GCTGTGCTT CACGCCAGN CCCGTCCTGC CGTGACANCC  
 TTCATCCTAC CTTTGAACC CCAAGGCCAA GTTGGTTCAA ACTGTTGGAG AACAGAGTTG GCCTGCATCT TGGAACA

SEQ ID NO:2363: (Length of Sequence = 412 Nucleotides)

GTCAGAGTNT TGATAGTTCT ACTGGGAGAC CACAAAATGA CATGGTCCAT CCTCCTCCTT ATCCAAAGAT GCATGGTTAA  
 AATAATATAG ATTAGGAATC ATCGTTACCT CCAACAGTT AATTCATTC AAATTTTTAG CCCAGACTGG TTTTAAAGA  
 CATTTCTGC CAAAATTTTT TGAAGTAAA CACATTAAGG GTAGGTGTGG AGAAGGATTA ATGGATTCAT TTTTATACTC  
 ACATCTGTTT TGGAAATATA TTTTATGCAA TAAAGCATAA ACTAACAGGT ATACTTATAA ATGCTGTGTT TTAGAAACAC  
 TAAAGATCT CCAATCTTAG GAGGCCTTAA TTTGAAATC TGCTTTTATT TGCTGAACT AGTGGCTAAC CTGNTAGGC  
 ATCTCAGAG GG

SEQ ID NO:2364: (Length of Sequence = 334 Nucleotides)

GAAATGATTT AATATTAGGA AAGGCAAGTN CCTCGAGACA TTTATTTAAG CTAATCTGTC CTGTATTTTT GACTTTCAGA  
 TTCATTACAC CAGCTACAT TAGCCTGCAC CATTAAAAAC ATTGATTCAA CCTCTCTTAT TGGCATAAC AATCATCTC  
 CCTTGTTAC TACTCTATCC TCAGCTTGGT ATTTCTCTAG CACAGAAGAA TGGTCCAGTA GATATGCTGA AGAAATACCT  
 GAATGCATAA ATAAATAAGA AAATGAGAGA CTGAATGANT CAATTAATAC CTCAGTGT ACCCTNGATA AGGTCTAGA  
 GAGGGGAGGT TCTA

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SEQ ID NO:2365: (Length of Sequence = 423 Nucleotides)

TTTTTTGCCA TTAAATAAGT ACTTTATGA TATTATATCA CACAGCACTT TACAGTATAC TCAAAGATAG CCTAAATTAT  
 GAATTAAACA TGCAATATT TNCTTTTCCA AAATGTGGAC AAAATGTCCT TTAGAGTGCT TTTGAACACT AGCCTTAGCT  
 ACTAAGCAIT CATGGGTTTG ATCTTTCTTG CGACATGACT TTAAGTAAGT TAACAAAAA TGTAGCTGTA GACAGTAATT  
 GTTTGATAAA TATGANCACT TTTAAATGG CACTGAATTT ACATCTTTAA TCATTTTAAT AGGGCCATCC ACAGCCTCTC  
 TTGTGTCTCT AATTCTCAAC CTCGGGGTC TTTAAAGGGC TGGTAAAGGC TCAGAAAGTG NCCAGCTCCA TGTGGGTCT  
 CTGTAAGNNG TCTATGTCTT CAT

SEQ ID NO:2366: (Length of Sequence = 294 Nucleotides)

CCAGCCATAC ACATGCCTTT ATTTAGATCA GCTTTTTC AATGCAGCC AAACCTATGA GTTGGACAGC CCAAAGTAAC  
 CAGCCCTATT CCACTGAGTT AGTTTACCCC ACAGCAGTAG AACCCAGTGC TGGTTTGGTT CCTGGCCCAT GGTGGGACAG  
 CGTGAAGGTG ATGGAGGGCT CTAGCACAAG GAGGTGCTGA GTGCCACCGG CAGGTGCTTC TGCAGACAGC CTAGACCAAG  
 GTAAGCAGGA GCCTCGNTT CAGAACCGAG GCGGCTCGGA CCAGAGGGCA GGCA

SEQ ID NO:2367: (Length of Sequence = 393 Nucleotides)

ACGACAGAG CGAAGGGGAG AGGATGGTAG TGTCTGACTT CCACGTTTTT GTCAGGGATG TGTTCAGCA TGTGGATTCC  
 ATGCAGAAAG ACTACCCCTG GCTTCTGTC TTCTTCTG GCACTCCAT GGGAGGCGCC ATGCCCATCC TCACGGCCGC  
 AGAGAGGCGG GGCCACTTCG CCGCATGGT ACTCATTTG CCTCTGGTTC TTGCCAATCC TGAATCTGCA ACACTTTCA  
 AGGTCTTGC TGGGAAAGTG CTCAACCTTG TGCTGCCAAA CTCTTCCCTC GGGCCCATCG ACTCCAGGT GCTCTCTCG  
 AATAAGGACA GAGGTGACA TTTATAACTC AGACCCCTG ATCTTNCCTG GGCANGGGCT NAAGGTGTG TTT

SEQ ID NO:2368: (Length of Sequence = 187 Nucleotides)

GATCTTGAAG TTAAACCACT GTTAGAAGTT TTGGTGGGA AGACAATTNA GCAGTCTCTT CTGGANGTAA TGGAAGAAGA  
 AGAGCTGGCT AACCTGCGG CAGTCAGCG TGAGTATGAA GAACTACGGA ATAGTGAACG TCCTGAAGTT CAACGACTTG  
 NAGAGCAAGA NAGGCGACAC CCAGAAG

SEQ ID NO:2369: (Length of Sequence = 341 Nucleotides)

GTATCTTTAG TAGAGGCGGG GTTCCACCAT GTTGGCCAGG CTGGTCTGCT ACTCCTGACC TCAGGTGATC ACCTGCCTCC  
 TCGGCCTCCC AAAATGCTGG GATTACAAGC GTGAGCCACC GCGCCTGGCA CCATCAGTTT TTGATCCTGA TACTTGTCTG  
 TCTCTTGGT TCTCTCATC CCTAATTTAA CCTGAACAC AAAATTCAAC AGGTTTGGC ATATAGAATA AAGATTATCA  
 GGCAAAGGCG CACTCTTGAC CTAATGATAT ATCTACATTT CATTTCTGA TCTATCAGCA ATATTTAATT TGTCTAGAAA  
 TGATGAGAAG TTTAGAGGAG G

SEQ ID NO:2370: (Length of Sequence = 337 Nucleotides)

AGATCAAGAT CTCGCCAAA ATGCCAGTAT GCAAAGGACA CTGGGGCAG CCTCTCAACA TTTCTGCCT GACTGATATG  
 CAGCTGATTT GTGGGATCTG TGCTACTGCT GGGAGCACA CCAACATGT CTCTGTCTT ATTGAAGATG CCTATGCTCA  
 GGAAAGGGAT GCCTTTGAGT CCTCTTCCA GAGCTTTGAG ACCTGGCGTC GGGGAGATGC TCTTCTGCG TTGGATACCT  
 TGGAAACTAG TAAGAGGAAA TCCCTACAGT TACTNGACTA AAGATTCAGA TAAAGTGAAG GAATTTTTTT GAGGAAGTTA  
 CACACACAC TTGGATC

SEQ ID NO:2371: (Length of Sequence = 320 Nucleotides)

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CGTGGCCGCA GAGGCAGCTG AGCATGAGGG ATGGAGCGTG CTGCTGTCTT GCAGGTGCCG TTAGCCCTGT TTGCACTGG  
 TGGATTGATC TGCTCAGGCG CACAGGGAGA TGGCACAGCA GGACCCGCCG CCCAGCCTCG CTGAGGGCAT GCTCCCGCCT  
 CACCTCCAGA GGCTGTGGG CGGAAGCGAG AGCTGCAGCA GTTGGGGCCA GCNTGGGACT GGAGGCCAG GTGAATCTTG  
 TGGGGCAGGG GACGGAGCTN AGGCTGTCCG GCCCGGGCCC TTCCACCCA AAGGCCCTAG AACCTTAGGC CTTCAATCCT

SEQ ID NO:2372: (Length of Sequence = 326 Nucleotides)

AGGCCTGGCA TGCGGCGAAA AGTTCCTGGA GAAGGCCTCC CCTCCCCAA AACACCGAG AAACGTGGG ACCTCATTAT  
 TGAGTTGAA GTGATCTTCC CCGAAAGGAT TCCCCAGACA TCAAGAACCG TACTTGAGCA GGTTCCTCCA ATATAGCTAT  
 CTGAGCTCCC CAAGGACTGA CCAGGGACCT TTCCAGAGCT CAAGGATTTC TGGACCTTTC TACCAGTTGT GGACCATGAG  
 AGGGTGGGAG GGCCAGGGA GGGCTTTCGT ACTNCTGAAT GTTTTNCAGA GCATATATTA CAATCTTTCA AAGTCGCACA  
 CTAGGA

SEQ ID NO:2373: (Length of Sequence = 361 Nucleotides)

AGCAGAGCTG AGGGAAGGCG TAGGATGGCT CCAGCTTCCG GTCAGTGGCT ACATGGTCAG TTCCATGATG GCGTTGACGA  
 TGTCACTGTG GTTGTNCTC AGAGCCGCA CGGCCTGGC CCTGGACACA TTGGCCTGCG CCATCACCAG CTCAATGTCA  
 CGCAGTTCCA GCCCCGCTC GTCCACCTCT TCTCTCTCT CCTCTTCTC TTCTTGCAC TCCAGCTCA CCGGGGCGCT  
 GGGTGCTGAC TCAGGGACCA AGGCTGAGGG CTCTGAGGGN ACCTTAACT TCTCAGCTGC GGCTTTGTGC ACTTGCTGGG  
 ACAAGGTCCT CAATCTTGN CTCGCCAAG ACCACATAAG T

SEQ ID NO:2374: (Length of Sequence = 281 Nucleotides)

TGACTCTAGT CTGGCACTTA TTGATGACAT TGAGAGCTG AAATATGAAA TINCAGAGGT GATGACAGAG ATGACAATC  
 TAACCTCCGT AGAGGAGAGC AAAACGACTC AGAGGNACAA ACAGATAGCC ATGGGAAGAA AGAAATTCAA CATGNTCCC  
 AAAAAGGGAA TTCAGTTCT AATAGAAAT GACCTGTAC AGAGTCCCC AGAAGACGTC GCCCAGTTCC TTTATAAAGG  
 AGAAGGCCTA AATAAGACCG TCATTGGGA CTACCTGNGG T

SEQ ID NO:2375: (Length of Sequence = 391 Nucleotides)

ATGTTTAGTG CTTCTTCAG GAGCTCTGGT AGGGCAGGTC TGGTGGTGAC AAAATCTCTC AGCATTGCT TGTCTGTAAA  
 GGATTTTATT TCTCTTCAC TTATGAAGCT CAGTTTGGCT GGATATGAAA TTCTGGGTG AAAATCTTT TCTTTAAGAA  
 TGTGAATAT TGGCCCCAC TCTCTTCTGG CTGTACAGT TTCTGTGAA AGATCTGCTG TTAGTCTGAT GGGCTTCCCT  
 TTGTGAGTAA CCCGACCTT CTCTCTGGCT GGCCTTAACT TTTTNCCTT CATTTCAACT TTGGTGAATC TGACAATTGT  
 GTATCTTGA GTTGCTGTT TCGAGGAGGC AACCTTTGTG GCGTCTCT GTAAATTTCC CGAATTGAA A

SEQ ID NO:2376: (Length of Sequence = 324 Nucleotides)

CCAGCCCTCC CTCAGCTGG AACACAGCCA GGTGCCCTCA GACCCCTGNN TCTGCACAAG GGGGGCCTGC CCCCTGCCCC  
 CAGCTATATA CACGACAGCC CATCTGCTG GCGTGGACA AAAGCTGGGA GCTCCTGTGC CCAGTCAGGA GCCCCTACAG  
 TCCACCAGCT GCGCGGCCG GTCCAGGGG CCACTGTGGT GCCAGNAGT TINTCAAAC CNAGGGCCCA GCCCCAGCTG  
 GCNCTNGCC AAGCCCCAGG CCGTTTGTG GGGATGGAGC CTCCACTG AGGCTGGTAA AAGCTTGAAC TCAACAGCAG  
 CAAT

SEQ ID NO:2377: (Length of Sequence = 357 Nucleotides)

GTTTATGTTT TTATTTATGT ATTTTAACTG ACTTATTGT GTATCCCACT AGAACAATAC ATTCAATA TACTTGACAG  
 ACTGTGCTG GTGCGTCATG GGAGCAGAGA ACTGTCCAG TGAATAGTTG TTGAAGAAAG GAGTAAATC TCCCCAAAC

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CCAGACTTCA TGGAAGGTG GCTGCTCTG GGGTGATGGT GGCTGGAGAG GCAGACTTGG AGGCTGCCAT GCTCTTATTT  
TCAGAT

SEQ ID NO:2384: (Length of Sequence = 165 Nucleotides)

TTAAGACAAT AATGAAAGAT TCTGTACAAA GTTACCAAGT CTACAGGCTG AGCGAGCCAA GGGTAAGTGG GGCTGATCC  
TTGTGGACGA ATGTCGCCG GAGAGCTGGC CTCACCTGGG GGAGGCAGT TGAAAAAGTA CACATTTACA GGGCTCGGA  
AAGGC

SEQ ID NO:2385: (Length of Sequence = 297 Nucleotides)

GGTTTINATT CATTCTCTC TATTAACTC TCTAAAGGAA ATTGGGCACC TGTAATCCCA GCACTTTGGG AGGCTGAGGT  
GGGTGGGTCA CTITNAGGTC AGGAGTTCAA GACCAACTCG GCCAGCATGG TGAAAAACCA TCTCTACTAA AAATACAAAA  
NTTAGCCAGG CTGGTGGTGT TCGCTGTAA TOCCAGCTAC TCAGGAGGCT GAGGCAGGAG AATTGTTTGA ACCTGGGAGG  
CGNGGTTGC AGTGAGCTGA GATCGTGCCA CTGCATTCCA GCCCAGGGTG ACAGAGT

SEQ ID NO:2386: (Length of Sequence = 290 Nucleotides)

AAAAAATAAA GTGAATTAT TGGTTCATGT AACTGGAAAG TCTCATGAAA ATGTCAGCTT CAGGAGAAGC TTGACCCAGC  
AGCTTCATGA TGTATGGAAA TACCTGGGTT TTTGTCTCT NCTCTGCTAC TGTTGTATCA GCTTTATTCC AAGTCTGGCT  
TCCTTTGTGT TTGCAAAATG CTITGTGAGA AGAAGCCTGG GTCCATCTGT TAGGNTTAAG TTTACTCTGT ATGCTGTAGT  
AGTGGCTATG ACAAGATTAG GAAGTGTATT TTCTCTCTCC ATATTAAAAG

SEQ ID NO:2387: (Length of Sequence = 356 Nucleotides)

GTCATCTGTA TTGTACATG AAATGCACAT CAAAACGGG TGAATTGAA ACGACCTATT AGGTCACACG GAGTCCGGCC  
CCTGGGGGCA AAGCCTCATC GATGCCACG GCGGTGGCC AGCACTTCC TTGGGCTGTG GCGTGTGCAC CCGGCTCTCC  
CAGCGGAGAG TCAGCTCACA CCCCAGGCC TTAGCTCTC TGSCAGCAGC TCCCAAAACG CACTTGAGGA ACCAATAATT  
CCTTGGGGGT TAATAGCTGT TCCCAAGAA AAGGGTCTG TGGGTCAAAT AAGTTTAGGA AAACATGGGT TAAAGAAGGT  
TTAGGCAAGA AGCTTTTCTA TAGGGCTTTG TCAGAG

SEQ ID NO:2388: (Length of Sequence = 226 Nucleotides)

ATTATTGGTA TAAAACTTA AGACGGCATT AGAATTCTTA AGAAAAGGTG TAAATTTAA AAAGATGTGC AAACAACAAA  
GAATGCCGA CCTGAACCA GACCTAAAGC ACCTCCANT TCTCCACAC ATCATGCCCC AACACCATCC AGCCCAATCG  
GACACCAGGA CAGTGAGGA CCGGTGGCTG TTCAGTGGC AACAGATCTG GAAGGAAAGA TTTTCA

SEQ ID NO:2389: (Length of Sequence = 250 Nucleotides)

CCCAGCTAGG CCTTGGNATG GCINCACTGA GGAGAAATCC CGGAACTGT ATTGACACAA AGATTCTNAT TGCACITGTA  
TTTTTNTATT AAAGTTTGCA TGGTTTCTAA TAAAGGATTC AACATAAGT TTGTAGTGAA ATGGCCTGNN AGATTCCAAG  
GGCTTCTCTN GAAGGGGGAT TNGCTGCAN TGTAATTIN CCTCTGAAGG AGGCTGGCCC CAAACTTGGN CCTCTCATG  
ACCCCTCTCT

SEQ ID NO:2390: (Length of Sequence = 371 Nucleotides)

CCTTTTCTG GAGAACGGG TCTCGCTATA TTGCCAGGC AGTCTCGAA CTCTGGGCT CAAGCTATCC TCCGCTCT  
NAGCCTCGT TTCCAGAAGG TCACCAAGTA ATATCTGNT TTCATCAGTT GCAGTTAAGA TTTTNNITTC TTGAAATACT  
GGTTTTCAAA CAGATCAGAA TTACCTGGGG AGCTTGTTTA AAATATAAAT GCCCAAGGC CAGCTCCAGG ACATTCTGAC



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TCCATAGGTA TGTGGTAAGC CCAGGGAATC CAGGTAAGCT CAGGTAAGCC CAGGGTAAGC CAGGGAATTG TTAACAGGAA  
GCTGGTGGGT TTCTGGCACC TNGACANCGA CTGAATTCTA GGTAGCTTGC C

SEQ ID NO:2391: (Length of Sequence = 200 Nucleotides)

CAGTTCAGCA GGCTATGAAA TTGTGTTGGC ATATAANAA CTGGAACITT CAACAGGGTG GTTTTGAAAC TAGNGCATT  
ACCAATAAAT GNCAAACCCA CAAGGACAGT GCATTGTGTC ACATAGANGA TCTGGAAAGT ACAGCTGTAA ACTATAATCN  
CCAGTCTCTG AGTTAGCACC TTCCACGNT AGTCTCTTAC

SEQ ID NO:2392: (Length of Sequence = 234 Nucleotides)

TCGCTGAGGT GTTGGTTTG GAATAGGGAA AAAGGTAAGA GACTAACGTG GAAAGGTGCT AACTCAGAGA CTGGAGATT  
TAGTTTACAG CTGTACTTC CAGATCTTCT ATGTGACACA ATGCACTGTC CTGTGTTGGT TGTCTTTAT TGGTTAATNC  
TCTAGTTTCA AAACACCT GTTGAAAGT CCAGNTATTT ATATGCCCA CAAATTTTAT AGCTGCTGA ACTG

SEQ ID NO:2393: (Length of Sequence = 337 Nucleotides)

TCCAGAGGCG GATTGAGAAG AAAGGAGATC CACATGAAAT GAAGATCACC TCTGCCTATC TACAGGACAT TGAGAATGCC  
TATAAGAAA CCTTCTCC TGAGATGAGT GAAAAATGTG AGGNTTACA GTATTCTGCA AGGAAGCTC AAGATTCAA  
AAAGGTGTA GAGGACATTG AATACCTGAA GTTCGATAAA GGGCCGTGGC TCAAGCAGGA CAATCGCACT TTATACCACC  
TGCGATTACT GGTTGAGGAT AAGTTTGAGG TGCTGAATTA CACAAGCAAT CCTATCTTIN TNCGGAAGT CACCATTGGA  
GCTCATCAGA CTGACCG

SEQ ID NO:2394: (Length of Sequence = 211 Nucleotides)

CAATGTTTA TTTTATATAC AAAGAATTAT CATGGTTTIN CATGAGTAG ATGCCCCGGA TAATCTCTG AAGGAAGAGC  
ATTTAGTCCA ACTTAATGAA ACGGATATCC TTGCGTACT GACGGAAACA CTGGCGGCAC ATATTGAGGC CATATTTCCG  
GATCANACCG TGCCGGTTG AACAGACAG ACAAGAGCGA GAACCTGCG C

SEQ ID NO:2395: (Length of Sequence = 335 Nucleotides)

CTGAAAGCTG TAACACCCTC AGGTAATAAC AAAAGGGATT TTTATTTTAC AGCTAAAGG AAAATAGGTG GAGAAGTTAA  
AAAAATAATG CTGATCCTGT TCTAAGTTC CAACTATAG CCAACACTCT GATGCTGCTC TTTTCTTGT AGGACCAACC  
GTCCAGTTT GCTGGGACT TTCTCATTT TACAGAGTCC CAAATCCTAG GAACTGGAG CAACTGGTAC AACTGGTCAC  
CTACTCTTGC CCTCTGGTA AATCAAGNCA ACTGTGACCA TCCAATGTGC CATCTTACAG GGNAAAGTTA TAACCACTA  
TTCCCCTATA ACATA

SEQ ID NO:2396: (Length of Sequence = 223 Nucleotides)

AGGAGATCC AGCTCGTCC TGCTGCAGC AGCACAACC TGACACCCA CCAATGGATG CTCAAGAAG GGCTTCTCCA  
TGCCAAGGA GGGNGTGGT GGTGCGGTG AAAAGACCAA GCAGGGGTG ACGGAAGCAG CTGAGAAGAC CAAGGAGGG  
GTCATGTATG TGGGATTACA TTTTTTTTT AAAGAAAGAA TAAATTAATT GTGATTAAAG TTG

SEQ ID NO:2397: (Length of Sequence = 379 Nucleotides)

CCATTACAAA GAATGTGGCA ACTTGCTTNT NCTAAAAGG AGGAATTGGA ACTAGAAAT GTGACTCTGT GGGGACTGCA  
TAGCTTTGTT AATTGACCTA TAGCTAAAC TTATGTGTT TGTGTGCTA TACATTGCTT TCCCATTTT AAGGATGCA  
GAGCTATTA CCAACATTT CCTGTGCATT AACCTCTGCA TGTGAAACT TTTAACAGTT ACTGAACATAT GTAAATATGT

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GAATTTTTTT ATTTAGGTGG ATGCATTTTT NGTCGTGTTA CTGCTCTTCT CAGCTTTATT CAATAAACTT GCATTTTAAG  
GGTTGTATTG GCAATTTTAA CTTAAAATGT GCATCATGAT GGAAGGTGCA GACCTTTTT

SEQ ID NO:2398: (Length of Sequence = 421 Nucleotides)

GACAGGTTGG TCTTACCCAC TGGNTCCAG TCATGCTGTA AACAGGGCTT GCTTTGGAGT CTGTCAGACC TGGCTTAGAC  
CCAGGCTCTG ACCAAATGGG TGAGTTATGC AGCTACTTGG TGGCATCTAA TACCCTATCG CAAAGGACTG CCGTGAACAG  
GAAGGAGGTG TCAAATTTGG CAGTGCCCTGA TGAGGTGAGG CCAGGACCCA GGAACCTTCTA TTCCCTCCCA TGCTCAGGAA  
CAGTAAGTGT TCTTCTATCT GCAGAGGTAG ATGCTTAGCA CATCGTGGGT ACTTCACTCA TGATTGCTAA AATTTGAATT  
TGTGGATAAA GTCATTTTCAA AAGTCAGATT CTAGGACCAA AAATACAATA TCTGTCCAAC ATGGAAGTGT TAGATCATGG  
TTTTTCCTTC CAGCCCCAGG A

SEQ ID NO:2399: (Length of Sequence = 392 Nucleotides)

GATAAGCTTG ATATCGAAAG TNCCACAATG GGTGAGTGT ACCAGGAACA CCATGAAGAA GACTTCTTTC TCTACATTGC  
CTACAGTGAC GAAAGTGTCT ACGTCTGTN AAGCTGCTGC CCTGAGCTG GAGGGGGTTC TCATTCTACA AAGAGAGAGG  
TGGCCCCCTT TTCTTGACCT CCTCTCCTT CAAGTCAAA CACCACCTCC CTTATTCAAG ACCGGCACTT CTTAATGTTT  
GTGCTTTTCT CTCCAGCCTC TCTTAGGAGG GGTAAATGGT GAGTGGCAT CTTGTAACCTC TCCCTTCTCC TTTCTTCCCC  
TTTCTCTGCC CGNCTTTCCT ATCCTGCTGT AGACTTCTTG ATTGTCAGTC TGTGGTCACA TCCAGTGGAT TG

SEQ ID NO:2400: (Length of Sequence = 366 Nucleotides)

CTGGGGAAG ACTGGCACAA GTTCTGCCTN AAGTGGAGC GCTGCAGCAA GACGCTGACG CCCGGGGGCC ACGCGAGCA  
TGACGGGAAG CCGTCTGCC ACAAGCCGTG CTACGCCACC CTGTTGGGAC CCAAGGGCGT GAACATCGGG GCGCGGGCT  
CCTACATCTA CGAGAAGCCC CTGGNGGAGG GGCCGAGGT CACCGCCCCC ATCGAGGTCC CCGCGCCCCG AGCAGAGGAG  
CGGAAGGCGA GCNGCCCCC GAAGGCNCA GCAGAGCCTC CAGTGTACC ACTTTCACCG GGGAGCCCAA CACGTGCCCC  
CGCTGCAGCA AAGAAGGTGT ACTTGGCTTG AGAAGGTGAC GTCTCT

SEQ ID NO:2401: (Length of Sequence = 385 Nucleotides)

CATCCACCCA GGGATTAGGG TTCAAGTAGC AGCTGCTAAC CCTTGACCA GCCCTTGTGG GACTCCCAAC ACAAGACAAA  
GCTCAGGATG CTGGTGATGC TAGGAAGATG TCCCTCCCT CACTGCCCCA CATCTCCCA GTGGCTCTAC CAGCCTCACC  
CATCAAACCA GTGAATTTCT CAATCTTGCC TCACAGTGAC TGCAGCGCCA AGCGGNCATC CACCAAGCAT CAAGTTGGAG  
AAAAGGGAAC CCAAGCAGTA GAGAGCGATA TTGGAGTCTT TTGTTCAATC AAATCTTGA TTTTTTTTTT TCCCTAAGAG  
ATTCTCTTTT TAGGGGGAAT GGGAAACGGA CACCTCATAA AGGGTTTCAA AGATCATCAA TTTTT

SEQ ID NO:2402: (Length of Sequence = 392 Nucleotides)

AAAGAACTTG GTATCTCTAT TAAAGTACAT GANCTCCAA GGAAATAGA GCGATTTACT CTTCTCCAAT CAGTGCATAT  
TTACAAGAAG CACAGAGTTC AGTATGAAAT GAGAACAATT TACAGATGTT TAGAGTTAGA ACATCTAACT GGAAGCACAG  
CAGATGCTA CTTGGAATAT ATTCAGCGAA ACTTACCTGA AGGGGTGCC ATGGAAGTAA CAAAGACACA ATTAGAACAG  
TTACCAGAAC ACATCAAGGA GCCAATCTGG GAAACACTAT CAGAAGAAAA AGAAGAAAGC AAGTCATAAA GCCTTCAGGG  
AGGCCATTTT TGCCTAAATT TTGAAATGAG GGTGGGCCAG ATGAGTATGT TTAAGTGGAG AGTGCTTTCC AG

SEQ ID NO:2403: (Length of Sequence = 179 Nucleotides)

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TCATTAAGTT ATACTCTTGG ATAGGAACAC TGAGGAAAAA TGAAAGATGA GATTTGCAAT AGGGATTCCTC TAATTCTCAT  
GTTAATCTGT TTTGTACCAT TTTTACTTTG TCTTTTGTGG ATCTCTTCTT TTTATTAGAT GATATTAAAG GGGATTAAAG  
TTGTATTGTA TGAAATGTC

SEQ ID NO:2404: (Length of Sequence = 399 Nucleotides)

TTCCCAAAGT GGTGTAAACA TTTTACACTC CTAATAACAG TGCAATGGGAA GCCAGTTTCT CTATATCCTC TCCAACATTT  
GGTGCTGTCA ATCTTTTAAA ATTTTAGCCA TTTTGTGGT TGTATAGTGT TATCTCATTG CAGTTTAAAT TTGCCGATCC  
CTGAATGTGT GTAGGTGTGT ATATGTATTA TATAATATAT ATATNATNCT TTCACTTATT TTGAAGTAAT TTCAAAGTTT  
CCAGAATAAT ATCAAGAACT CTTGTACTCC CTTCGCCAGA TTCTCCAATT GTAATGTTTT ATTGCATATG CTCCATTGCC  
CAITCTCCTC TCTACTTATA GCTTGCATTA GTGTTCCTCT GGAACCNNTA GAGATGAAGG TGGAAAAAAG GATGCGGGT

SEQ ID NO:2405: (Length of Sequence = 404 Nucleotides)

GGACAGAGT GACCTGACCA CCTAACATC AGCTGCATAC CAGCAGAGCC TGACTGTTC A CACAGGAAGT CATCTCCTCA  
GCATGCAGGG GAGCCCTGGA GGACACAATC GCCCAGGCAC CCTCATGGCA GCTGACAGAG CCAACAAAT GTTTGGACCC  
CAAGTGCTTA CGACCCGGCA CTACGTGGGC TCAGCAGCTG CTTTTCAGG GACACCAGAG CATGGACAAT TCCAAGGCAG  
TCTGCTGGT GCCTATGGGA CTGCTCAGCC CCCACCTCAC TATGGGCCCA CACAGCCAGC TTATAGTCCT AGTCAGCAGC  
TCAGAGCTCC TTGGGCATC CCTGCAGTGC AGTTACCTAT CTTAGCCAC AGCCACAGGC CTATGCTGT GCATGGGCCA  
TTTT

SEQ ID NO:2406: (Length of Sequence = 280 Nucleotides)

AAGAGAGAAC ATTTTATTTG TCTATAATTA GGTAAACAG TTGGGTAAAA YCTTACTAAA AGAAAGTTAA GGTGTCTTA  
ACACAAGATA TATAATGCA TAAATYAGTT AATTAAATTT YAATTAAAM CAGCTGCTTT GGAAATCCAA CATGTACT  
TCAAATAAT TTACCTAAAT AACTTATGAA AATGGATGTT ATTGTACAAC TCATCTCTCC TTATAAAAGG NGAACAAAGG  
ACATAGGAAA GCTGAAAAGA AGGCTAGATG AAGATACAGG

SEQ ID NO:2407: (Length of Sequence = 350 Nucleotides)

TCCAAGGSCA ATATAAATTA CAGTATGCAA AACATACTGA CTGGCTGAGG TAAAACGCAC TGCTCCTGCC TCAGTCAAC  
ATGAGGGGAA ACACACATAT GCTTTTAAAA ACATCTGGCT TATAAAAAA CATCCCTAG AAAGGCCTCC AGAGAGGGGC  
TGTGAGGCTC ACCCTCTGCC GCGCTCAGGA GGACCCGCG GCTCAGCCCT GGCCCTCCA CTGCAGCCAT GGTGGCGGCC  
TCCCCCTACT GCTGCCCAG GCTCTGTCC AGGTGCTCT TGATGGTGTG GAGGAAGTCC GTGGTGTTC GGAAGTGCTC  
GTTGAGCTC ACATTGCTGA GGCCGTGAAT

SEQ ID NO:2408: (Length of Sequence = 239 Nucleotides)

ATGNTTTGG GGTCCNAGA AATGGATGTG CGGAAGAAGA AGAAGAAAAA AATCAGCAG CTGAAAGANC CAGAGGCAGC  
AGGGCCTGTG GGGACAGAGC CCACAGTGA GACACTGGAG CCTCTNGNAG TCCTGTCNCC GTCCACCACC AAGAAGAGGA  
AGAAGCCCAA AGGGAAAGAA ACCCTCGAGC CAGAAGACAA GACAGTGAAG CAGGAACAGA TTAACACTGA GCCTCTAGA

SEQ ID NO:2409: (Length of Sequence = 331 Nucleotides)

TCCTTCAAG AATTTTCAGC CAATCGACCG TCCTGTCTCT TTAAGGCTTA GGAAGAGCAG TGTGGCTGCC CCTTAAAGGA  
GGCGTTCAP CAATCCATAT TGGACAGAGC ATGGGGGCGA TTAATCGGGA CCGACGGGC CTCTGACTCC AGCAATACAG  
CGAATCAGCG GCTTTCGGGA ATACATTTTT CGGAAAAGA CTCTCTCCTC GGTTCCTGTC TCTGCACAG TTGAAATTTT

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CCCCAGTTTT TCTGCAGAT CGGGAGTGA GCAATGCTA CCCCCGCTC CGCACCAGT TGGGCGCTCC CGGATGATGC  
CCTACCCCTT T

SEQ ID NO:2410: (Length of Sequence = 135 Nucleotides)

CTGCAGGACT TCGAAGAGC GTGCATTCCC AGTGGGCGAA CGGGAATTCG AACGGAGAGA GGGTTATCTT GTGGGGGGCT  
ACCCGTGGAG AGCAAGGCGC CCCAGGGGT TGGTCCGTG AAATTNAGGT CGCCC

SEQ ID NO:2411: (Length of Sequence = 330 Nucleotides)

ATGCTGCTCG GTTCTCTGT CCCCCAACT TTACCGCGAA GCCCCAGCT CAGAGTCCCC TGTTCCTCC TTGGAGGCGC  
TGACGGGTCC AGATACGGAG CTGTGGCTTA TTCAGGCCCC TGCAGACTTT GCCCCAGAAT GCTTCAATGG GCGGCATGTG  
CCTCTNTCTG GCTCCAGAT CGTCAAGGC AAATTGGCAG GCAAGCGCA CCGCTATCG AGTCTCAGC AGCTGTCCCC  
AAGCTGGAGA AGCGACCTG CTGGCCCCCT CAANGGAGC AGGAGGTGA CTCACCTGTG CTCAGCCCC CCAGGGCACC  
CTAAGGATCC

SEQ ID NO:2412: (Length of Sequence = 583 Nucleotides)

TGCACCGTG CACCAGTGC CGTGTGGAT TGINACAGN ACGTGGGTA TGAAGTAAC CACCTACCGN GTGCACGTGG  
CCNAGCAGCA GGACGTGCAC CTGACTGTA CGGAGTCTG GCAGCATGAG CTCTCGCCAG ACTCGAAGTT GCCCGTGCAG  
CTCTCACCA TCGTGTGGC CAGCACCAAC CCTGCTGTG AGGCCTTTGA CATCTGGCTG AACTCCACTG AGTACGGGGA  
GCTCTGCGAG AAGCTCCGG CACCCATCCG CAGGGCAGCC CATGTGTCA TCACCAGAG CCTGGGCGAC CTNTTNTGG  
AGACATTTG CTCCCTGGTA GAGGTCAACC CGGCCTACTC AGTGCCAGC AGCCAGGAGC TGGAGGCTG CATAGGCTTG  
CATGCAGACA CGTGCCAACG TGAAGTGGT GAAGACCTGC CAGGAGTCAG CCACAGGGGA GTTCCAGCAG TTTAATTNC  
CGCCCCATG TGGTGGCTTA ACTGTATNGG GAAAGTGGT TNGNCAAGC GCAAGACCCC CTGGGNCIT NAACTTGT  
TGGCAAACGG GGTNCTGCA TGG

SEQ ID NO:2413: (Length of Sequence = 203 Nucleotides)

TGTCCTCCC ACCCCCTAGC CATGCAGNG TGAATNGGG AACCCAGNN GGGGGCTGAG AAGCTCCAGG CCACCTINAG  
GGAATCCAG AGGTCTTTC TACCAGGAAG AAGTGCCGA GCTCGTGGC CGCCGAGACC ACGCGGAGG TGATCTGGTG  
GGACAAAGT TCGTCTGCT CCGAGTCAG GAGATCGAGT CTC

SEQ ID NO:2414: (Length of Sequence = 92 Nucleotides)

AAGGGGCAGG ATGGGGCTGG GAAGTCCAAC CCCACGCATT TGGGCTCAGC CTGGACATG GAGGCTGAC AGCTGTTGTC  
CTTTGGGGAT CC

SEQ ID NO:2415: (Length of Sequence = 401 Nucleotides)

CTTTCCCTT CTGTGNCCT AATGCANCA CTNATACAC GTTGCTTAAC CTAGAANCGT GGCTCCACCG TGAATCTAA  
TTGGTCCGTG CTATCGAGC ACTGTCCCT TAACTGGTCT CGCTCCAGTG GCCCNACTG CTTTCTTCC TCTCCAGNA  
ATGGCTCTT GGGCCAGAG TTGAATCTC GCGATCGGA TGGGACGGA GTACCGGCT GGGGTGTCCC AGAGCCCGGA  
CTGAGCTGGG GAGTCAAGAC CTCGGGCGAT GAGGGCTGAG CAAGTCGGAG TCGTAGGTCC AGTCTTCCC CAGCTTCTCC  
TGCTCCAAT CTGTGGGT CTGGGGTTC TTGCTCTCC AGCGGCTGG AGCTGCTGT GGAAGAGTCC TCCCGGATC  
C

SEQ ID NO:2416: (Length of Sequence = 245 Nucleotides)

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ATGTAATACA GTGTAGAAAG CGATCATGTC ATAAGCAATG ATTCTGTACA ATCATNCGC AGAAAATTAG TTTTGGAGAA  
 TTCTTGGTAA TTGAAGACCA GCAGAGCACC CCTCCACC CGCCCCCTAA AAGTGCTTAC AATTTACAGG GATYCTTTTC  
 TTTTCAAAG ACCCAAAGAY ACGTGGTCAG AAAAMAAAAG CTTGAAGTCT CAATGCCTAA TGTCGTGCAC ATTKNACAGG  
 GACGC

SEQ ID NO:2417: (Length of Sequence = 384 Nucleotides)

GGTTTGTCAA GATGATGGAA CATCCCATAA GCCCAGGTGT GCAGCTAACC TTTAGAAGCT GGAAAAGGCA AGGAAACATA  
 TTCTGTAGAG CCTCCAGAAG GAACACACGT CTGCACACAC TTTGTTTTTA GCTCAGTGAA ACTGATTTTG GACTACTGAC  
 CTTCAGAACT GTAAGATAAA TTCTGTGTGT TTTACGTTTG TGGTGTATA GAAGTTACAG AAATGAATAT ACTTACCGTA  
 GTTAGAGAG AGATGGGAGG ATACTTTTTT TTCCTCCCTC TTTTGAAGG GAGGTAGGTC TCCTTAATC CAGAGGAAAG  
 ACTTGTCTTT CTTCATATAG GGGCCCTTTG ATTCTTAATT CATGGGAGTT GTTTAGGAGA TTGA

SEQ ID NO:2418: (Length of Sequence = 1645 Nucleotides)

GTGATGGCTG CCTGAGGGG GACCATCATG TCGGAGACCG CATGGGTGCA GGTCTCACC CACAGCCCAT GCCCAGCCTC  
 CTGCAGACTC AGGTCATCCA GCTGGTOGAT GGCCTTTTGC ATACCTGGTG CCTCTCCTC TCGGGCTTGG CAGGCTTCTC  
 TGGGGGCTTC TCAGATGACT CTTTGGCCTT CTTCTCTGTC TTGGCTAACT CCTTGGCCAG CTCTGAAGCT GCCTCCTTGG  
 CTCCTCTCTC TACCACCTCC TCCGTTTGG CCAACTTGCT CACGGCCGTC TTGGTAGTGG CTTTGAAGGCT CTCCTTGCTA  
 TCAGCCCGCT GTTTGATTTT GCTGGGCTTG AGGTGGTAG GCACAGCCCG AGAAGCCAGG NCCTTCTGCG TGGCCACAGG  
 GTAACGCAGG AAGTCCAGAT GCGAAGCTT TTCTAGGCC TCCAAGATCT TGTTTTGGG AGCATTTCTT GGAAAAAGCA  
 CACGCACAAT CTTCTCAGTG GGATTGGCTG GTAGCCAGAC CACCAGAGCA GTGATAGAGG TAAGGTAGGG CACGGAGATC  
 TCAGCCTCCT TCCATTGGG CAGCAOGATG CCTGINTTGG CTTTACTAAT GCCTGCCAC TTTTGCATGA GGAAGTGCAT  
 CTCCTTGTG TCCTTGACAG GGTGAGGAC ATACATGTCC AGCGGCCCA CACCATTTT GTTGAAGAGG GTCAGTGGCT  
 CAATGGTATT GCTGACCACA CGATATAGAG GCTCAGCCTG GATGCCAGG CGGTTAAGT GCTCAGAGT GAGGCAGGCC  
 TCCTCAATGC TACGCTTGGC TTTCGGGAG GCATCAGGAA GCGCAGCTT CTCAGGCAGG TTGAAAAAGA CAACTCCAAG  
 CTCAGGANAG ATAAGGTCT TCAACCAGTC GCTGTAACTG CTAGAGCCCT GGNACTGCTC CTCCTCTAGC TCTGCCACTT  
 TCGCTGCAG TAGTCCATG ATGCCTGGCA GGTGTCTGCT CCAATGTGT GTNAGTAGCA CGAGTCAAT GGGTCCAAG  
 TNCCGTACCA GCTTCCAAA ACAGGACTTG CGATCAGAGC CACCATCCAC CAGGATGTTG AAACATTGA CAGCAAAGAG  
 GGCAGAGTCC CACGACCAC CTGGGAAGAT GTAGCAACAA GGCTTGGAGA GCTTGAAGAA GCGCCCTGAG GTGGGGGGCT  
 CTAGTAGGTC AAATGGGGAT GGCAGTCCA CAGTCTCAGA GACATACTG GAGAACTCAG CACGCGCTC CATGGTGGGC  
 AGAGTGGGCT CAGGGTTTAG CCGAGGTGC AGGTCTCTT GGGAACTGGA TAATCCAGG TGGCTCCAAT CACCTTCCCC  
 TAAGCAGGAC ACGGTAAGGA AGGCTGTAT CCCAGGTCT CTATTGCTGA GCAATTGGGA AATCTGGGG TTGTGAAGGA  
 CCTGGGCAA GTTTTCATAT GAGTAGGTGC CACTCTGTAG GATGAGGTCT CCCCAGGCT CTAACTTTG CCACTCAAG  
 ATTAGTAGTT TATAAGCTGA TGAGCTGCTA AGAAGATGAT GAACCTCAGA GCTGATGCTG TCTGCACTGG GATTTACCAG  
 GATGATGGTC TCTAGGATCT CACTCTGGTG GCAAAGGGTC CTCG

SEQ ID NO:2419: (Length of Sequence = 837 Nucleotides)

GGAAGGATGA GAAACAGATT TTGCTCACT TCATGGGCTG GCGTGAATT GACGATGGTG CAAACCCAAA TNATCCTGAT  
 GTAATTNATG AAGATTATGG AACTGCAGCG AATGACATG GGGACACCAC GAACAGAAGT AATGAAATCC CTTCCACAGA  
 CGTCACTGAT AAAACCGGTC GGAACATCT CTGGTCTAT GCTGTGGTGG TGATTGCTC TGTTGGTGGG TTTTCCCTTT  
 TGGTAATGCT GTTTCINCTT AAGTTGGCAA GTCCTCCAT GTTGGGCTG AAGGTTTGT TTTGTTTCA TAAGATCCCA  
 CTGGATGGGT AGCTGAAATA AAGGAAAAGA CAGAGAAAGG GGCTGTGGTG CTTGTGTGTT GATGCTGCCA TGTAAGCTGG  
 ACTCCTGGGA CTGCTGTGG CTTATCCCGG GAAGTGCTGC TTATCTGGG TTINCTGGTA GATGTGGGCG GTGTTTGGAG

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GCTGTACTAT ATGAAGCCTG CATATACTGT GAGCTGTGAT TGGGGAACAC CAATGCAGAG GTAACCTCTCA GGCAGCTAAG  
 CAGCACCTCA AGAAAACATG TTAAATTAAT GCTTCINTTC TTACAGTAGT TCAAATACAA AACTGAAATG AAATCCCAT  
 GGATTGTACT TCININCTGA AAAGTGTGCT TTTTGACCTT ACTGGACATT TATTGACTTA ATTGCTTCTG TTTATTAAAA  
 TTGACCTGCA AAGTTAAAAA AAAATTAAAG TTGAGAACAG GTATAAGTGC AACTGAATA GTCTAATCTA CATGTAACAC  
 ATATTINNGT ATGATTTTCT ATACTCTAAT CAGCACT

SEQ ID NO:2420: (Length of Sequence = 1843 Nucleotides)

GAAGCTCCGG CCCAGGTGGC CGCTGGCTGC TGAGCTCAGC CCAAGGTGCG GCTGTGGTGG TGGTGGTGGC GGCTGCAGGC  
 TTGCTGCTG CTGGATGTTT GCTGGCTGCA GGTCTGCTG CTGCATCTGT AAGTTTGTG GCTGCACCTG CTGGGTCTGC  
 ACCAGGTGAG GCTGGGTGGC CAGCCGGGTG CTGGGCAGGC CCTGGTAGCT CATCATCTGG GACAGGGGCG TGGCAGCAAG  
 GCTACTGTGC AGCGGGCTTA CCATGCCATG CTGCAGGGAG GGGGCTGTG TGCTCAGGGG GCCTGGTGCC AACTCCCCC  
 GCAGAGGGTT GTATTGGTTC GGCACCATGC CGCTCTGCAG CCGGACAGC CACTCGCATT GACCATTCAA ACTGGTGGAC  
 CGNCCACAG TGAAATTCAG GGGCCCTCCG CTGCTNGAGC CCAGGACGGT GCTGGTGCCA GAGGCCACAG GCAGGTGGGA  
 GAGACGAGGT GGGCCAGTNT TAAAGGCCAG CCGGCGGCCC CCACCANCG CCGCCATYTC GGGCTTGGCC GCCACGTTCA  
 GGTNCCCNAT GCCCAGGTGG GTGTGGGGCA TYCCAGGCAG GTGGTTGAGG GGCACGGAGC GAGACTGCTG GAACGGGGAG  
 GGCAGNAGTG GCGGCGAGGC CAGTCTGAC AGGTAGCCAT GGGGTGACTC CAGGGAGTCC ACGGGCGAGA GCATGCCGGA  
 GCTGTCCAGC AGGCAGNCTT TGCGTCCCTG GGACTTCTTC CTCGTGCTT TGAGGTCTT GGCCTCCTTG CTTCACAGG  
 CCAGGCCCTT GCTGCTGGGC TTGCGGACCT TCTTGCCCTG CAGCCCGGCG TTGAGGCTGC CCAGGTAGCC GTTGGGCGAG  
 CAGAGCGNGG GCGACAGGGT GGGCGTGCCC CCCAGCGGCG TCCGTGCAGC TGCGGGCTGC GCACCAGGTT GTACTCTGCC  
 AGCAGCCTCA CGATGTCTG ATGCATGNC TCCTNTGCGA TGTGCGCGG CAGGCGGTCC ATATGATCCG TGATGTCCCG  
 GTTGGCAAAG TGTCCAGCA GCACCTTGGC GGTCTCTAG CTGCCCTCCC GGGCGGCCAG AAACAGGGGT GTCTCTCCC  
 TGTGTCTCTG CATATCTTTG TTAGCCCCGT TCTTCAGGAG CACAACCTGC GCATCCACAT TGTTCACNGC GCGGCCCCAG  
 TGCAGGGCGG ACTTGCCAG GTNATCTACG GCGTTGACGT CCGCGTGTGA GTTGATGAGG TCCTCCAGCA TGCCCTCCAC  
 GGCCAGGCGG GCAGCCAGN TCAGTGGGCT CGTGCCATCA TGATGCGGG CATCCAGGTC TGTGGCTCGG TTCCGGATCA  
 GGATCTTGGA AGACACCTTG TGCGTCGGCA GACACAGCG CATGCAGCG GGTGCGGCCC ATGTGTCTCT GGATGTTGGC  
 ATCTGCGCTG GCCTCCAGCA GGGCTTGGC GGCATCAGAG CGTGAGTAGC GGGCGGCCAG GTGCAAGGCG GTCTCGCCCG  
 TNCGGTCTGT CTGGTTGTGC AAGCTGGGCG CCTGGTAGAT GAAGTCGGAG ATGACGGCGG GCGGCTCTC CTCTCTCTCG  
 CTGTGCCCCG TCTCCAGGCG GCGCCGCTG CAGGAGGCGA TCATGAGCGG GGTGAAGCCA TCAGGCCCGC GGACATTGAC  
 GTCCATGCAG TCGGCGTCAA CCTCACCTG GGGCGGTGTG GGGGCCATGG CANACATGCG CAGGTCAGCG GCATCCAGGT  
 GCTGCTGAGT CCACTGCCCG TGGTCTGTCT GGTGCTCCAG GTCAGGCAGA ACCACGGGCT CCTCGAACC GAACTTCTTG  
 GTC

SEQ ID NO:2421: (Length of Sequence = 1452 Nucleotides)

CCAGCAACTC AAATTCAACA CCTCGGACTC CTGCGACCGC ATCAAAGAGC AATTTCAGCT ACTGCAAGNT CAGTACCACA  
 GCTCAAGCT CGANTGTGAC AAGTTGGCCA GTGAGAAGTC AGAGATGCAG CGTCACTATG TGATGTACTA CGAGATGTCC  
 TACGGCTTGA ACATCGAGAT GCACAAACAG GCTGAGATCG TCAAAGGCT GAACGGGATT TGTGCCCAGG TCCTGCCCTA  
 CCTNTCCCAA GAGCACCAGC AGCAGGTCTT GGGAGCCATT GAGAGGGCCA AGCAGGTAC CGCTCCCGAG CTGAACCTTA  
 TCATCGACA GCAGCTCAA GCGCACAGC TGTCCAGCT GCAGGCCCTG GCGCTGCCCT TGACCCCACT ACCCGTGGGG  
 CTGCAGCCCG CTTCGCTGCC GCGGCTCAGC GCAGGCACCG GCTCTCTCTC GCTGTCCGCG CTTCGGTTCC CAGGCCACCC  
 TCTCCAAGGA AGACAAGAAC GGGCAGCATG GTGACACCCA CCAGGAGGAT GATGGCGAGA AGTCGATTGA GCAGGGGCGC  
 GGGACGGGGA GGTGGGAGG GGGACAGAG GGGAGACAGA GGCACGGAGA GAAAGGAATG TTTAGCACAA GACACAGCGG  
 ANTCTGGGAT TGGCTAAACT CCCATAGTAT TTATNGTGGC CGCGGCGGG GGGCCAGCC CAGCTTGAG GCCACCTCTA

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GCTTCTTCC TACCCCATTC COGGCTTCCC TCTCTCTCCC CTGCAGCCTG GTTAGGTGGA TACCTGCCCT GACGTGTGAG  
GCAAGNTAAG GCCTGGAGGG TCAGATGGGG AGACCAGGTC CCAAGGGAGC AAGACCTGCG GANGCARGCA AGCCCCNGCC  
CTTCCCCCGT TTTGAACATG TGTAACCGAC AGTCTGCCTG GGCCACAGCC CTCTCACCTT GGTACTGCAT GGACGNAATG  
CTAGCTGCCC CTTTCCCGTN CTGGGCACCC CGAGTNTCCC CCGACCCCGG GTCCCAGGTA TGCTCCCACC TCCACCTGCC  
CCACTCACCA CCTCTGNTAG TNCCAGACAC CINCAGYCC ACCTGGTCTT CTNCCATCGC CCACAAAAGG GGGGGCAGCA  
GGGACGAGCT TAGCTGAGCT GGGAGGAGCA GGGTGAGGGT GGGCGACCCA GGATTCCCCC TCCCCTTCCC AAATAAAGAT  
GAGGGTACTA AAGTGTCTT GGTTTTATT TTATTATTAT TTTTCTTT TTCCAGTATA CTAGCTGTGTC TTTAAGAAA  
GGGGATATTA AAAAAAAAAA AAAGACAAA GIGTTTTTAA AAAAAAGCAA CACCCACACC TGGTGTCTGT ATATAGTCAG  
CTTATCTCGT GTTCAATCGT CTGATCTCTA CAGAGAGAAG TGGAAAATGC TGTATCAAGG GTGGGCTTAG CIGTGCCITT  
CCAATAAGA TG

5     WHAT IS CLAIMED IS:

1. A purified polynucleotide having a sequence designated as one of:

SEQ ID NO: 316 - 2421, except SEQ ID NOS 650, 1834, and 2073;

10     or having a sequence complementary thereto.

2. A purified polynucleotide having a sequence designated as one of:

SEQ ID NO: 316 - 2421, except SEQ ID NOS: 485, 650, 1834, 2073, 2092, and 2353;

15     or complementary sequence thereto or, for those sequences over 150 nucleotides long, a portion thereof at least 150 nucleotides in length.

3. An isolated polynucleotide that includes a sequence designated as one of:

20     SEQ ID NO: 316 - 2421, except SEQ ID NOS: 485, 650, 1834, 2073, 2092, and 2353;

or complementary sequence thereto or, for those sequences over 150 nucleotides long, a portion thereof at least 150 nucleotides in length.

25     4. An isolated polynucleotide operably coding for a native human polypeptide or protein, which includes a region coding for the same amino acid sequence as a native human coding region corresponding to a sequence designated as one of:

SEQ ID NO: 316 - 2421.

30     5. The polynucleotide of Claim 4, wherein said SEQ ID NO is listed in Table 6 and is one of SEQ ID NOS: 316-2421.

6. The polynucleotide of Claim 4, wherein said SEQ ID NO is listed in Table 7 and is one of SEQ ID NOS: 316-2421.

35     7. The polynucleotide of Claim 4, wherein said SEQ ID NO is identified in Table 10 in a metabolic functional grouping and is one of SEQ ID NOS: 316-2421.



8. The polynucleotide of Claim 4, wherein said SEQ ID NO is identified in Table 10 in a structural functional grouping and is one of SEQ ID NOS: 316-2421.

5 9. The polynucleotide of Claim 4, wherein said SEQ ID NO is identified in Table 11 in a developmental control grouping and is one of SEQ ID NOS: 316-2421.

10. An isolated polynucleotide coding for a human protein or polypeptide, which includes a coding region corresponding to the EST identified as:

10 SEQ ID NO: 316 - 2421;  
or a polynucleotide complementary thereto.

11. The polynucleotide of Claim 10, wherein the SEQ ID NO is 316-1000.

15 12. The polynucleotide of Claim 10, wherein the SEQ ID NO is 1001-1500.

13. The polynucleotide of Claim 10, wherein the SEQ ID NO is 1501-2000.

14. The polynucleotide of Claim 10, wherein the SEQ ID NO is 2001-2421.

20 15. The polynucleotide of Claim 10, wherein said polynucleotide further includes the entire sequence designated as any one of SEQ ID NOS: 316-2421.

25 16. An isolated polynucleotide comprising at least 150 bp of a sequence of Claim 10 and wherein said SEQ ID NO excludes NOS 485, 650, 1834, 2073, 2092, and 2353.

30 17. An isolated polynucleotide sequence, which hybridizes to a sequence designated as any one of SEQ ID NOS 316-2421, except SEQ ID NOS 485, 650, 1834, 2073, 2092, and 2353, or to a sequence complementary thereto, under hybridization conditions sufficiently stringent to require at least 97% base pairing.

18. A polynucleotide according to any one of Claims 4-17, in substantially purified form.

19. A construct in isolated form comprising a vector and a polynucleotide according to any one of Claims 1-17.

35 20. The construct according to Claim 19, further comprising a promoter operably linked to said polynucleotide.

21. A panel of at least 100 isolated polynucleotides having the sequences of Claim 3 or Claim 16.

22. An antisense oligonucleotide capable of blocking expression of any one of the polynucleotide-encoding sequences of Claim 10.

23. A triple helix probe capable of blocking expression of any one of the polynucleotide-encoding sequences of Claim 10 having at least a 10-base homopurine or homopyrimidine sequence, said probe comprising single-stranded DNA having at least a 10-base homopurine or homopyrimidine sequence and being adapted to bind to the major groove of double stranded DNA which includes said polynucleotide-encoding sequence.

25. The polynucleotide of Claim 1, wherein said SEQ ID NO is 913.

26. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1039.

27. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1395.

28. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1567.

29. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1667.

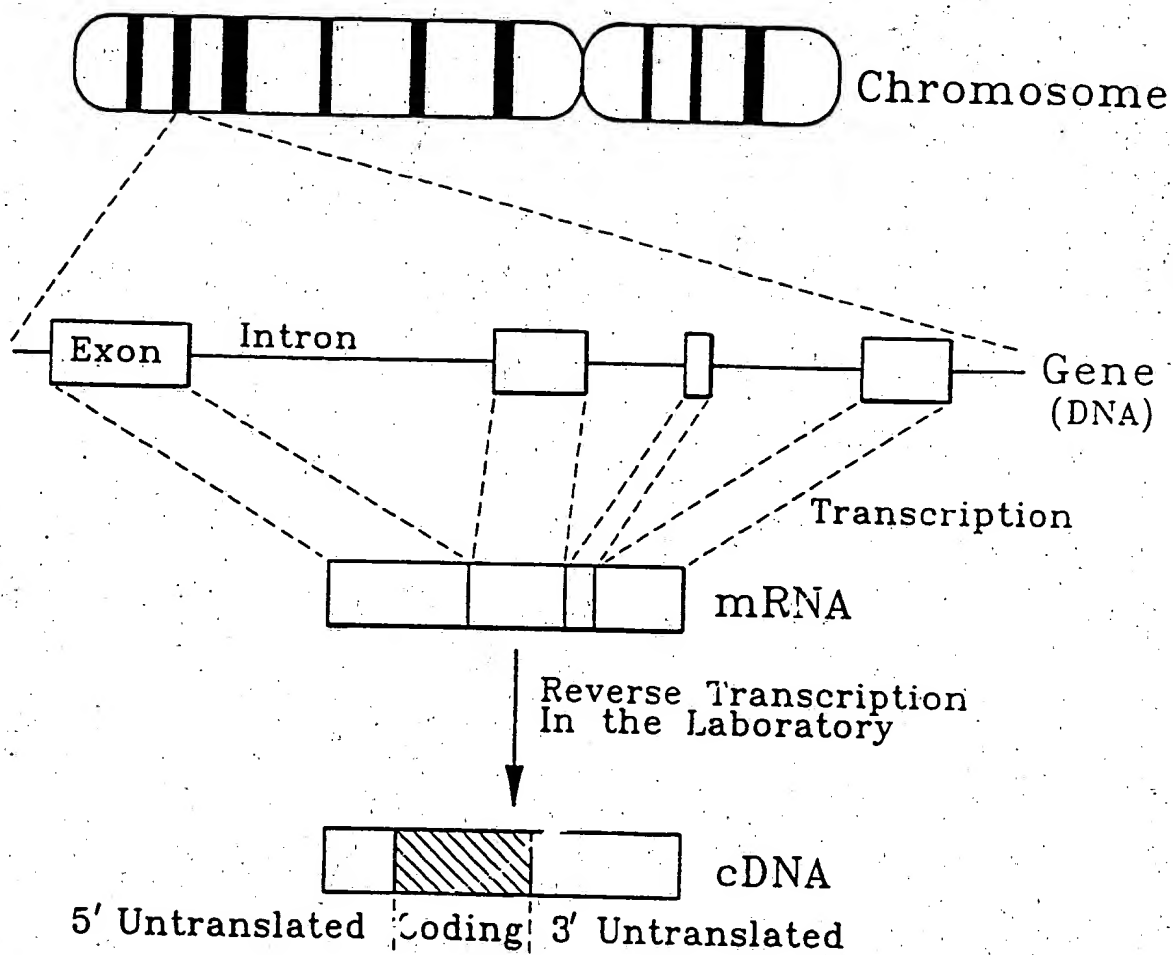
30. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1704.

31. The polynucleotide of Claim 1, wherein said SEQ ID NO is 2089.

32. The polynucleotide of Claim 1, wherein said SEQ ID NO is 2297.

33. The polynucleotide of Claim 1, wherein said SEQ ID NO is 2302.

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**FIG. 1**